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NWS YORKTOWN
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VALIDATED DATA PACKAGE, A501753, NWS YORKTOWN VA
7/13/2015
CH2M HILL

Data Validation Summary

Yorktown CTO-WE19, Site 25

TO: Clairette Campbell/VBO

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FROM: Tiffany McGlynn/GNV

CC: Herb Kelly/GNV

DATE: July 13, 2015

Introduction

The following data validation report discusses the data validation process and findings for ENCO Laboratories, for SDG A501753.

Samples were analyzed using the following analytical methods:

- SW6010C Metals
- SW7470A/SW7471B Mercury
- SW8260B Volatiles
- SW8270D Semivolatiles
- SW8270D_SIM Semivolatiles
- SW8330B Explosives (Empirical SDG 1504064)
- SW9014 Cyanide

The samples included in this SDG are listed in the table below.

| Sample Name | Matrix |
|----------------------|--------|
| YS25-EB040815 | Water |
| YS25-SB01-0H02-0415 | Soil |
| YS25-SB02-0H02-0415 | Soil |
| YS25-SB03-0H02-0415 | Soil |
| YS25-SB04-0H02-0415 | Soil |
| YS25-SB06-0H02-0415 | Soil |
| YS25-SB12-0H02-0415 | Soil |
| YS25-SB12P-0H02-0415 | Soil |

| Sample Name | Matrix |
|------------------|--------|
| YS25-SS01-0415 | Soil |
| YS25-SS02-0415 | Soil |
| YS25-SS03-0415 | Soil |
| YS25-SS04-0415 | Soil |
| YS25-SS06-0415 | Soil |
| YS25-SS12-0415 | Soil |
| YS25-SS12P-0415 | Soil |
| YS25-TB01-040815 | Water |

Data Evaluation

Data was evaluated in accordance with the analytical methods and with the criteria found in the following guidance documents: Sampling and Analysis Plan Site Remedial Investigation Site 25 Naval Weapons Station Yorktown, Virginia CTO-WE-19 (March 2015), Region III Modifications for Organic Data Review (EPA 1994), and Region III Modifications for Inorganic Data Review (EPA 1993), as applicable. The samples were evaluated based on the following criteria:

- Data Completeness
- Technical Holding Times
- Instrument Tuning
- Initial/Continuing Calibrations
- Blanks
- Internal Standards
- Laboratory Control Samples
- Matrix Spike Recoveries
- Surrogates
- Field Duplicates
- Column Confirmation
- Serial Dilution
- Interference Check Sample
- Identification/Quantitation
- Reporting Limits

Overall Evaluation of Data/Potential Usability Issues

Specific details regarding qualification of the data are addressed in the sections below. If an issue is not addressed there were no actions required based on unmet quality criteria. When more than one qualifier is associated with a compound/analyte, the validator has chosen the qualifier that best indicates possible bias in the results and qualified these data accordingly.

Data Completeness

The SDG was received complete and intact.

Technical Holding Times

According to the chain of custody records, sampling was performed on 4/8/15. Samples were received at the laboratory on 4/9/15. All sample preparation analysis was performed within holding time requirements.

Blanks

Several compounds were detected in the associated equipment blank and method blanks as listed below. Affected data are summarized in **Attachment 1**.

| Blank ID | Compound | Conc. | Units |
|-----------------|--------------------|--------------|--------------|
| 5D14006-BL | Nickel | 0.846 | UG_L |
| 5D15034-BL | Acetone | 7.0 | UG_L |
| 5D17002-BL | Aluminum | 2.77 | MG_KG_WETWT |
| 5D17002-BL | Barium | 0.0432 | MG_KG_WETWT |
| 5D17002-BL | Cobalt | 0.0884 | MG_KG_WETWT |
| 5D17002-BL | Iron | 1.60 | MG_KG_WETWT |
| 5D17002-BL | Manganese | 0.0366 | MG_KG_WETWT |
| 5D17022-BL | Methylene chloride | 13 | UG_KG_WETWT |
| 5D23014-BL | Acetone | 4.7 | UG_KG_WETWT |
| 5D23014-BL | Methylene chloride | 3.4 | UG_KG_WETWT |
| YS25-EB040815 | Barium | 0.567 | UG_L |
| YS25-EB040815 | Calcium | 54.9 | UG_L |
| YS25-EB040815 | Copper | 2.30 | UG_L |
| YS25-EB040815 | Iron | 7.06 | UG_L |
| YS25-EB040815 | Sodium | 324 | UG_L |

Lab Control Sample/Sample Duplicate

2-Chloronaphthalene exhibited low recoveries in the LCS/LCSD. Chloroethane and acetone did not meet RPD criteria between the LCS and LCSD. Affected data are summarized in **Attachment 1**.

Surrogates

Surrogates for sample YS25-SS06-0415 exhibited low recoveries for method SW8330B. Several samples exhibited low recoveries for method SW8260B.

Surrogates for sample YS25-SB06-0H02-0415 exhibited high recoveries for method SW8330B.

Affected data are summarized in **Attachment 1**.

Field Duplicate Precision

For the native samples and field duplicates below, various compounds in methods SW8330B and SW6010C. Affected data are summarized in **Attachment 1**.

| Sample ID |
|----------------------|
| YS25-SB12-0H02-0415 |
| YS25-SB12P-0H02-0415 |
| YS25-SS12-0415 |
| YS25-SS12P-0415 |

Calibration

Several compounds in method SW8260B exhibited high responses in the second source calibration.

2-Hexanone, 1,2-dibromo-3-chloropropane, caprolactam, and methyl-tert-butyl ether exhibited low responses in the continuing calibration.

Methylene chloride exhibited high responses in the continuing calibration.

Samples affected by calibration exceedances are listed below. Affected data are summarized in **Attachment 1**.

| Sample ID |
|---------------------|
| YS25-SS01-0415 |
| YS25-SB01-0H02-0415 |
| YS25-SS02-0415 |

| Sample ID |
|----------------------|
| YS25-SB02-0H02-0415 |
| YS25-SS03-0415 |
| YS25-SB03-0H02-0415 |
| YS25-SS04-0415 |
| YS25-SB04-0H02-0415 |
| YS25-SS06-0415 |
| YS25-SB06-0H02-0415 |
| YS25-TB01-040815 |
| YS25-SS12-0415 |
| YS25-SB12-0H02-0415 |
| YS25-SB12P-0H02-0415 |
| YS25-SS12P-0415 |
| YS25-EB040815 |

Column Confirmation

RDX in samples YS25-SB12-0H02-0415 and YS25-SB12P-0H02-0415 did not meet column confirmation. Affected data are summarized in **Attachment 1**.

Conclusion

These data can be used in the project decision-making process as qualified by the data quality evaluation process.

Please do not hesitate to contact us about this validation report.

Sincerely,



Tiffany McGlynn

Qualification Flags

| | |
|---------|--|
| Exclude | More appropriate data exist for this analyte. |
| R | Data were rejected for use. |
| UL | Analyte not detected, quantitation limit is potentially biased low. |
| UJ | Analyte not detected, estimated quantitation limit. |
| U | Analyte not detected. |
| B | Not detected substantially above the level reported in laboratory or field blanks. |
| L | Analyte present, estimated value potentially biased low. |
| K | Analyte present, estimated value potentially biased high. |
| N | Analyte identification presumptive; no second column analysis performed or GC/MS tentative identification. |
| J | Analyte present, estimated value. |
| NJ | Analysis indicates the presence of an analyte that was "tentatively identified" and the associated value represents its approximate concentration. |
| None | Placeholder for calculating quality control issues that do not require flagging. |
| = | Analyte was detected at a concentration greater than the quantitation limit. |

Qualifier Code Reference

| Value | Description |
|--------------|--|
| %SOL | High Moisture content |
| 2C | Second Column – Poor Dual Column Reproducibility |
| 2S | Second Source – Bad reproducibility between tandem detectors |
| BD | Blank Spike/Blank Spike Duplicate(LCS/LCSD) Precision |
| BRL | Below Reporting Limit |
| BSH | Blank Spike/LCS – High Recovery |
| BSL | Blank Spike/LCS – Low Recovery |
| CC | Continuing Calibration |
| CCBL | Continuing Calibration Blank Contamination |
| CCH | Continuing Calibration Verification – High Recovery |
| CCL | Continuing Calibration Verification – Low Recovery |
| DL | Redundant Result – due to Dilution |
| EBL | Equipment Blank Contamination |
| EMPC | Estimated Possible Maximum Concentration |
| ESH | Extraction Standard - High Recovery |
| ESL | Extraction Standard - Low Recovery |
| FBL | Field Blank Contamination |
| FD | Field Duplicate |
| HT | Holding Time |
| ICB | Initial Calibration – Bad Linearity or Curve Function |
| ICH | Initial Calibration – High Relative Response Factors |
| ICL | Initial Calibration – Low Relative Response Factors |
| IR15 | Ion ratio exceeds +/- 15% difference |
| ISH | Internal Standard – High Recovery |
| ISL | Internal Standard – Low Recovery |
| LD | Lab Duplicate Reproducibility |
| LR | Concentration Exceeds Linear Range |
| MBL | Method Blank Contamination |
| MDP | Matrix Spike/Matrix Spike Duplicate Precision |
| MI | Matrix interference obscuring the raw data |

| | |
|-----|--|
| MSH | Matrix Spike and/or Matrix Spike Duplicate – High Recovery |
| MSL | Matrix Spike and/or Matrix Spike Duplicate – Low Recovery |
| OT | Other |
| PD | Pesticide Degradation |
| RE | Redundant Result - due to Reanalysis or Re-extraction |
| SD | Serial Dilution Reproducibility |
| SSH | Spiked Surrogate – High Recovery |
| SSL | Spiked Surrogate – Low Recovery |
| TBL | Trip Blank Contamination |
| TN | Tune |

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Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|----------------------|---|--------|-----------|
| YS25-SS06-0415 | 1,3,5-Trinitrobenzene | UL | SSL |
| YS25-SS06-0415 | 1,3-Dinitrobenzene | UL | SSL |
| YS25-SS06-0415 | 2,4,6-Trinitrotoluene | UL | SSL |
| YS25-SS06-0415 | 2,4-Dinitrotoluene | UL | SSL |
| YS25-SS06-0415 | 2,6-Dinitrotoluene | UL | SSL |
| YS25-SS06-0415 | 2-Amino-4,6-dinitrotoluene | UL | SSL |
| YS25-SS06-0415 | 3,5-Dinitroaniline | UL | SSL |
| YS25-SS06-0415 | 3-Nitrotoluene | UL | SSL |
| YS25-SS06-0415 | 4-Amino-2,6-dinitrotoluene | UL | SSL |
| YS25-SS06-0415 | 4-Nitrotoluene | UL | SSL |
| YS25-SS06-0415 | HMX | L | SSL |
| YS25-SS06-0415 | Nitrobenzene | UL | SSL |
| YS25-SS06-0415 | PETN | UL | SSL |
| YS25-SB06-0H02-0415 | RDX | L | SSL |
| YS25-SS06-0415 | Tetryl | UL | SSL |
| YS25-SB06-0H02-0415 | HMX | K | SSH |
| YS25-SS12-0415 | RDX | J | FD |
| YS25-SS12P-0415 | RDX | UJ | FD |
| YS25-SB12-0H02-0415 | HMX | J | FD |
| YS25-SB12-0H02-0415 | RDX | J | 2C |
| YS25-SB12P-0H02-0415 | RDX | J | 2C |
| YS25-SB12P-0H02-0415 | HMX | J | FD |
| YS25-SS01-0415 | Sodium | B | EBL |
| YS25-SS01-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS01-0415 | Chloromethane | UL | SSL |
| YS25-SS01-0415 | Vinyl chloride | UL | SSL |
| YS25-SS01-0415 | Bromomethane | UL | SSL |
| YS25-SS01-0415 | Chloroethane | UL | SSL |
| YS25-SS01-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS01-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS01-0415 | Acetone | L | SSL |
| YS25-SS01-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS01-0415 | Carbon disulfide | UL | SSL |
| YS25-SS01-0415 | Methylene chloride | UL | SSL |
| YS25-SS01-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS01-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS01-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS01-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS01-0415 | 2-Butanone | UL | SSL |
| YS25-SS01-0415 | Chloroform | UL | SSL |
| YS25-SS01-0415 | Bromochloromethane | UL | SSL |
| YS25-SS01-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS01-0415 | Methyl acetate | UJ | 2S |

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Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|---|--------|-----------|
| YS25-SS01-0415 | Cyclohexane | UL | SSL |
| YS25-SS01-0415 | Methylcyclohexane | UL | SSL |
| YS25-SS01-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS01-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS01-0415 | Benzene | UL | SSL |
| YS25-SS01-0415 | Trichloroethene | UL | SSL |
| YS25-SS01-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS01-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS01-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SS01-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS01-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SS01-0415 | Toluene | UL | SSL |
| YS25-SS01-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SS01-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS01-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS01-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS01-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS01-0415 | Chlorobenzene | UL | SSL |
| YS25-SS01-0415 | Ethylbenzene | UL | SSL |
| YS25-SS01-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS01-0415 | o-Xylene | UL | SSL |
| YS25-SS01-0415 | Bromoform | UL | SSL |
| YS25-SS01-0415 | Styrene | UL | SSL |
| YS25-SS01-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS01-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS01-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS01-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS01-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS01-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS01-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SS01-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB01-0H02-0415 | Sodium | B | EBL |
| YS25-SB01-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB01-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB01-0H02-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS02-0415 | Sodium | B | EBL |
| YS25-SS02-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS02-0415 | Chloromethane | UL | SSL |
| YS25-SS02-0415 | Vinyl chloride | UL | SSL |
| YS25-SS02-0415 | Bromomethane | UL | SSL |
| YS25-SS02-0415 | Chloroethane | UL | SSL |
| YS25-SS02-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS02-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |

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Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|----------------|--------------------------------|--------|-----------|
| YS25-SS02-0415 | Acetone | L | SSL |
| YS25-SS02-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS02-0415 | Carbon disulfide | UL | SSL |
| YS25-SS02-0415 | Methylene chloride | UL | SSL |
| YS25-SS02-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS02-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS02-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS02-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS02-0415 | 2-Butanone | L | SSL |
| YS25-SS02-0415 | Chloroform | UL | SSL |
| YS25-SS02-0415 | Bromochloromethane | UL | SSL |
| YS25-SS02-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS02-0415 | Methyl acetate | UJ | 2S |
| YS25-SS02-0415 | Cyclohexane | UL | SSL |
| YS25-SS02-0415 | Methylcyclohexane | UL | SSL |
| YS25-SS02-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS02-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS02-0415 | Benzene | UL | SSL |
| YS25-SS02-0415 | Trichloroethene | UL | SSL |
| YS25-SS02-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS02-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SS02-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS02-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SS02-0415 | Toluene | UL | SSL |
| YS25-SS02-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SS02-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS02-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS02-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS02-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS02-0415 | Chlorobenzene | UL | SSL |
| YS25-SS02-0415 | Ethylbenzene | UL | SSL |
| YS25-SS02-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS02-0415 | o-Xylene | UL | SSL |
| YS25-SS02-0415 | Bromoform | UL | SSL |
| YS25-SS02-0415 | Styrene | UL | SSL |
| YS25-SS02-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS02-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS02-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS02-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS02-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS02-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS02-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |

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Attachment 1 Change Qual. Table

SDG A501753

| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|---|--------|-----------|
| YS25-SS02-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB02-0H02-0415 | Sodium | B | EBL |
| YS25-SB02-0H02-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SB02-0H02-0415 | Chloromethane | UL | SSL |
| YS25-SB02-0H02-0415 | Vinyl chloride | UL | SSL |
| YS25-SB02-0H02-0415 | Bromomethane | UL | SSL |
| YS25-SB02-0H02-0415 | Chloroethane | UL | SSL |
| YS25-SB02-0H02-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SB02-0H02-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SB02-0H02-0415 | Acetone | L | SSL |
| YS25-SB02-0H02-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SB02-0H02-0415 | Carbon disulfide | UL | SSL |
| YS25-SB02-0H02-0415 | Methylene chloride | L | SSL |
| YS25-SB02-0H02-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SB02-0H02-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SB02-0H02-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SB02-0H02-0415 | 2-Butanone | UL | SSL |
| YS25-SB02-0H02-0415 | Chloroform | UL | SSL |
| YS25-SB02-0H02-0415 | Bromochloromethane | UL | SSL |
| YS25-SB02-0H02-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SB02-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB02-0H02-0415 | Cyclohexane | UL | SSL |
| YS25-SB02-0H02-0415 | Methylcyclohexane | UL | SSL |
| YS25-SB02-0H02-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SB02-0H02-0415 | Benzene | UL | SSL |
| YS25-SB02-0H02-0415 | Trichloroethene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SB02-0H02-0415 | Bromodichloromethane | UL | SSL |
| YS25-SB02-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB02-0H02-0415 | 2-Hexanone | UJ | CCL |
| YS25-SB02-0H02-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SB02-0H02-0415 | Toluene | UL | SSL |
| YS25-SB02-0H02-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SB02-0H02-0415 | Tetrachloroethene | UL | SSL |
| YS25-SB02-0H02-0415 | Dibromochloromethane | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SB02-0H02-0415 | Chlorobenzene | UL | SSL |
| YS25-SB02-0H02-0415 | Ethylbenzene | UL | SSL |
| YS25-SB02-0H02-0415 | m- and p-Xylene | UL | SSL |
| YS25-SB02-0H02-0415 | o-Xylene | UL | SSL |

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Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|---|--------|-----------|
| YS25-SB02-0H02-0415 | Bromoform | UL | SSL |
| YS25-SB02-0H02-0415 | Styrene | UL | SSL |
| YS25-SB02-0H02-0415 | Isopropylbenzene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SB02-0H02-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SS03-0415 | Sodium | B | EBL |
| YS25-SS03-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS03-0415 | Chloromethane | UL | SSL |
| YS25-SS03-0415 | Vinyl chloride | UL | SSL |
| YS25-SS03-0415 | Bromomethane | UL | SSL |
| YS25-SS03-0415 | Chloroethane | UL | SSL |
| YS25-SS03-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS03-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS03-0415 | Acetone | UL | SSL |
| YS25-SS03-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS03-0415 | Carbon disulfide | UL | SSL |
| YS25-SS03-0415 | Methylene chloride | UL | SSL |
| YS25-SS03-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS03-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS03-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS03-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS03-0415 | 2-Butanone | UL | SSL |
| YS25-SS03-0415 | Chloroform | UL | SSL |
| YS25-SS03-0415 | Bromochloromethane | UL | SSL |
| YS25-SS03-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS03-0415 | Methyl acetate | UJ | 2S |
| YS25-SS03-0415 | Cyclohexane | UL | SSL |
| YS25-SS03-0415 | Methylcyclohexane | UL | SSL |
| YS25-SS03-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS03-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS03-0415 | Benzene | UL | SSL |
| YS25-SS03-0415 | Trichloroethene | UL | SSL |
| YS25-SS03-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS03-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS03-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SS03-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS03-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SS03-0415 | Toluene | UL | SSL |

Yorktown Site 25

Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|---|--------|-----------|
| YS25-SS03-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SS03-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS03-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS03-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS03-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS03-0415 | Chlorobenzene | UL | SSL |
| YS25-SS03-0415 | Ethylbenzene | UL | SSL |
| YS25-SS03-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS03-0415 | o-Xylene | UL | SSL |
| YS25-SS03-0415 | Bromoform | UL | SSL |
| YS25-SS03-0415 | Styrene | UL | SSL |
| YS25-SS03-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS03-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS03-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS03-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS03-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS03-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS03-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SS03-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB03-0H02-0415 | Sodium | B | EBL |
| YS25-SB03-0H02-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SB03-0H02-0415 | Chloromethane | UL | SSL |
| YS25-SB03-0H02-0415 | Vinyl chloride | UL | SSL |
| YS25-SB03-0H02-0415 | Bromomethane | UL | SSL |
| YS25-SB03-0H02-0415 | Chloroethane | UL | SSL |
| YS25-SB03-0H02-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SB03-0H02-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SB03-0H02-0415 | Acetone | UL | SSL |
| YS25-SB03-0H02-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SB03-0H02-0415 | Carbon disulfide | UL | SSL |
| YS25-SB03-0H02-0415 | Methylene chloride | UL | SSL |
| YS25-SB03-0H02-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SB03-0H02-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SB03-0H02-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SB03-0H02-0415 | 2-Butanone | UL | SSL |
| YS25-SB03-0H02-0415 | Chloroform | UL | SSL |
| YS25-SB03-0H02-0415 | Bromochloromethane | UL | SSL |
| YS25-SB03-0H02-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SB03-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB03-0H02-0415 | Cyclohexane | UL | SSL |
| YS25-SB03-0H02-0415 | Methylcyclohexane | UL | SSL |
| YS25-SB03-0H02-0415 | Carbon tetrachloride | UL | SSL |

Yorktown Site 25

Attachment 1 Change Qual. Table

SDG A501753

| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|---|--------|-----------|
| YS25-SB03-0H02-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SB03-0H02-0415 | Benzene | UL | SSL |
| YS25-SB03-0H02-0415 | Trichloroethene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SB03-0H02-0415 | Bromodichloromethane | UL | SSL |
| YS25-SB03-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB03-0H02-0415 | 2-Hexanone | UJ | CCL |
| YS25-SB03-0H02-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SB03-0H02-0415 | Toluene | UL | SSL |
| YS25-SB03-0H02-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SB03-0H02-0415 | Tetrachloroethene | UL | SSL |
| YS25-SB03-0H02-0415 | Dibromochloromethane | UL | SSL |
| YS25-SB03-0H02-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SB03-0H02-0415 | Chlorobenzene | UL | SSL |
| YS25-SB03-0H02-0415 | Ethylbenzene | UL | SSL |
| YS25-SB03-0H02-0415 | m- and p-Xylene | UL | SSL |
| YS25-SB03-0H02-0415 | o-Xylene | UL | SSL |
| YS25-SB03-0H02-0415 | Bromoform | UL | SSL |
| YS25-SB03-0H02-0415 | Styrene | UL | SSL |
| YS25-SB03-0H02-0415 | Isopropylbenzene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SB03-0H02-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SB03-0H02-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SB03-0H02-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SS04-0415 | Sodium | B | EBL |
| YS25-SS04-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS04-0415 | Chloromethane | UL | SSL |
| YS25-SS04-0415 | Vinyl chloride | UL | SSL |
| YS25-SS04-0415 | Bromomethane | UL | SSL |
| YS25-SS04-0415 | Chloroethane | UL | SSL |
| YS25-SS04-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS04-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS04-0415 | Acetone | L | SSL |
| YS25-SS04-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS04-0415 | Carbon disulfide | UL | SSL |
| YS25-SS04-0415 | Methylene chloride | L | SSL |
| YS25-SS04-0415 | Methyl-tert-butyl ether (MTBE) | UL | SSL |
| YS25-SS04-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS04-0415 | cis-1,2-Dichloroethene | UL | SSL |

Yorktown Site 25

Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|-----------------------------|--------|-----------|
| YS25-SS04-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS04-0415 | 2-Butanone | UL | SSL |
| YS25-SS04-0415 | Chloroform | UL | SSL |
| YS25-SS04-0415 | Bromochloromethane | UL | SSL |
| YS25-SS04-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS04-0415 | Methyl acetate | UJ | 2S |
| YS25-SS04-0415 | Cyclohexane | UL | SSL |
| YS25-SS04-0415 | Methylcyclohexane | UL | SSL |
| YS25-SS04-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS04-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS04-0415 | Benzene | UL | SSL |
| YS25-SS04-0415 | Trichloroethene | UL | SSL |
| YS25-SS04-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS04-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS04-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SS04-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS04-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SS04-0415 | Toluene | UL | SSL |
| YS25-SS04-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SS04-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS04-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS04-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS04-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS04-0415 | Chlorobenzene | UL | SSL |
| YS25-SS04-0415 | Ethylbenzene | UL | SSL |
| YS25-SS04-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS04-0415 | o-Xylene | UL | SSL |
| YS25-SS04-0415 | Bromoform | UL | SSL |
| YS25-SS04-0415 | Styrene | UL | SSL |
| YS25-SS04-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS04-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS04-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS04-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS04-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS04-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS04-0415 | 1,2-Dibromo-3-chloropropane | UL | SSL |
| YS25-SS04-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SB04-0H02-0415 | Sodium | B | EBL |
| YS25-SB04-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB04-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB04-0H02-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS06-0415 | Sodium | B | EBL |
| YS25-SS06-0415 | Methyl acetate | UJ | 2S |

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Attachment 1 Change Qual. Table

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| Sample ID | Compound | Q Flag | Qual Code |
|---------------------|-----------------------------|--------|-----------|
| YS25-SS06-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SS06-0415 | 2-Hexanone | UJ | CCL |
| YS25-SB06-0H02-0415 | Sodium | B | EBL |
| YS25-SB06-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB06-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB06-0H02-0415 | 2-Hexanone | UJ | CCL |
| YS25-TB01-040815 | Methyl acetate | UJ | 2S |
| YS25-TB01-040815 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-TB01-040815 | 2-Hexanone | UJ | CCL |
| YS25-SS12-0415 | Sodium | B | EBL |
| YS25-SS12-0415 | 1,2-Dibromo-3-chloropropane | UJ | 2S |
| YS25-SS12-0415 | Arsenic | J | FD |
| YS25-SS12-0415 | Beryllium | J | FD |
| YS25-SS12-0415 | 2-Butanone | UJ | 2S |
| YS25-SS12-0415 | 2-Hexanone | UJ | 2S |
| YS25-SS12-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SS12-0415 | Acetone | J | BD |
| YS25-SS12-0415 | Cadmium | J | FD |
| YS25-SS12-0415 | Cobalt | J | FD |
| YS25-SS12-0415 | Magnesium | J | FD |
| YS25-SS12-0415 | Nickel | J | FD |
| YS25-SS12-0415 | Potassium | J | FD |
| YS25-SS12-0415 | Chloroethane | UJ | BD |
| YS25-SS12-0415 | Methyl acetate | UJ | 2S |
| YS25-SS12-0415 | Methylene chloride | J | CCH |
| YS25-SB12-0H02-0415 | Cadmium | UJ | FD |
| YS25-SB12-0H02-0415 | Copper | J | FD |
| YS25-SB12-0H02-0415 | Lead | J | FD |
| YS25-SB12-0H02-0415 | Manganese | J | FD |
| YS25-SB12-0H02-0415 | Zinc | J | FD |
| YS25-SB12-0H02-0415 | 1,2-Dibromo-3-chloropropane | UJ | 2S |
| YS25-SB12-0H02-0415 | Sodium | B | EBL |
| YS25-SB12-0H02-0415 | 2-Butanone | UJ | 2S |
| YS25-SB12-0H02-0415 | 2-Hexanone | UJ | 2S |
| YS25-SB12-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB12-0H02-0415 | Acetone | J | BD |
| YS25-SB12-0H02-0415 | Chloroethane | UJ | BD |
| YS25-SB12-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SB12-0H02-0415 | Methylene chloride | J | CCH |
| YS25-EB040815 | Methyl acetate | UJ | 2S |
| YS25-EB040815 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-EB040815 | 2-Hexanone | UJ | CCL |
| YS25-EB040815 | Caprolactam | UJ | CCL |

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Attachment 1 Change Qual. Table

SDG A501753

| Sample ID | Compound | Q Flag | Qual Code |
|----------------------|---|--------|-----------|
| YS25-EB040815 | 2-Chloronaphthalene | UL | BSL |
| YS25-SB12P-0H02-0415 | Cadmium | J | FD |
| YS25-SB12P-0H02-0415 | Copper | J | FD |
| YS25-SB12P-0H02-0415 | Lead | J | FD |
| YS25-SB12P-0H02-0415 | 1,2-Dibromo-3-chloropropane | UJ | 2S |
| YS25-SB12P-0H02-0415 | Manganese | J | FD |
| YS25-SB12P-0H02-0415 | Zinc | J | FD |
| YS25-SB12P-0H02-0415 | 2-Butanone | UJ | 2S |
| YS25-SB12P-0H02-0415 | 2-Hexanone | UJ | 2S |
| YS25-SB12P-0H02-0415 | 4-Methyl-2-pentanone | UJ | 2S |
| YS25-SB12P-0H02-0415 | Acetone | B | MBL |
| YS25-SB12P-0H02-0415 | Sodium | B | EBL |
| YS25-SB12P-0H02-0415 | Chloroethane | UJ | BD |
| YS25-SB12P-0H02-0415 | Methyl acetate | UJ | 2S |
| YS25-SS12P-0415 | 1,1,1-Trichloroethane | UL | SSL |
| YS25-SS12P-0415 | 1,1,2,2-Tetrachloroethane | UL | SSL |
| YS25-SS12P-0415 | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon-113) | UL | SSL |
| YS25-SS12P-0415 | 1,1,2-Trichloroethane | UL | SSL |
| YS25-SS12P-0415 | 1,1-Dichloroethane | UL | SSL |
| YS25-SS12P-0415 | 1,1-Dichloroethene | UL | SSL |
| YS25-SS12P-0415 | 1,2,3-Trichlorobenzene | UL | SSL |
| YS25-SS12P-0415 | 1,2,4-Trichlorobenzene | UL | SSL |
| YS25-SS12P-0415 | 1,2-Dibromo-3-chloropropane | UJ | CCL |
| YS25-SS12P-0415 | 1,2-Dibromoethane | UL | SSL |
| YS25-SS12P-0415 | 1,2-Dichlorobenzene | UL | SSL |
| YS25-SS12P-0415 | 1,2-Dichloroethane | UL | SSL |
| YS25-SS12P-0415 | 1,2-Dichloropropane | UL | SSL |
| YS25-SS12P-0415 | 1,3-Dichlorobenzene | UL | SSL |
| YS25-SS12P-0415 | 1,4-Dichlorobenzene | UL | SSL |
| YS25-SS12P-0415 | 2-Butanone | UJ | CCL |
| YS25-SS12P-0415 | 2-Hexanone | UJ | CCL |
| YS25-SS12P-0415 | 4-Methyl-2-pentanone | UL | SSL |
| YS25-SS12P-0415 | Acetone | L | SSL |
| YS25-SS12P-0415 | Benzene | UL | SSL |
| YS25-SS12P-0415 | Bromochloromethane | UL | SSL |
| YS25-SS12P-0415 | Bromodichloromethane | UL | SSL |
| YS25-SS12P-0415 | Bromoform | UL | SSL |
| YS25-SS12P-0415 | Bromomethane | UL | SSL |
| YS25-SS12P-0415 | Carbon disulfide | UL | SSL |
| YS25-SS12P-0415 | Carbon tetrachloride | UL | SSL |
| YS25-SS12P-0415 | Chlorobenzene | UL | SSL |
| YS25-SS12P-0415 | Chloroethane | UL | SSL |
| YS25-SS12P-0415 | Chloroform | UL | SSL |

Yorktown Site 25

Attachment 1 Change Qual. Table

SDG A501753

| Sample ID | Compound | Q Flag | Qual Code |
|-----------------|------------------------------------|--------|-----------|
| YS25-SS12P-0415 | Chloromethane | UL | SSL |
| YS25-SS12P-0415 | cis-1,2-Dichloroethene | UL | SSL |
| YS25-SS12P-0415 | cis-1,3-Dichloropropene | UL | SSL |
| YS25-SS12P-0415 | Cyclohexane | UL | SSL |
| YS25-SS12P-0415 | Dibromochloromethane | UL | SSL |
| YS25-SS12P-0415 | Dichlorodifluoromethane (Freon-12) | UL | SSL |
| YS25-SS12P-0415 | Ethylbenzene | UL | SSL |
| YS25-SS12P-0415 | Isopropylbenzene | UL | SSL |
| YS25-SS12P-0415 | m- and p-Xylene | UL | SSL |
| YS25-SS12P-0415 | Arsenic | J | FD |
| YS25-SS12P-0415 | Beryllium | J | FD |
| YS25-SS12P-0415 | Cadmium | J | FD |
| YS25-SS12P-0415 | Cobalt | J | FD |
| YS25-SS12P-0415 | Magnesium | J | FD |
| YS25-SS12P-0415 | Nickel | J | FD |
| YS25-SS12P-0415 | Potassium | J | FD |
| YS25-SS12P-0415 | Sodium | B | EBL |
| YS25-SS12P-0415 | Methyl acetate | UL | SSL |
| YS25-SS12P-0415 | Methylcyclohexane | UL | SSL |
| YS25-SS12P-0415 | Methylene chloride | L | SSL |
| YS25-SS12P-0415 | Methyl-tert-butyl ether (MTBE) | UJ | CCL |
| YS25-SS12P-0415 | o-Xylene | UL | SSL |
| YS25-SS12P-0415 | Styrene | UL | SSL |
| YS25-SS12P-0415 | Tetrachloroethene | UL | SSL |
| YS25-SS12P-0415 | Toluene | L | SSL |
| YS25-SS12P-0415 | trans-1,2-Dichloroethene | UL | SSL |
| YS25-SS12P-0415 | trans-1,3-Dichloropropene | UL | SSL |
| YS25-SS12P-0415 | Trichloroethene | UL | SSL |
| YS25-SS12P-0415 | Trichlorofluoromethane (Freon-11) | UL | SSL |
| YS25-SS12P-0415 | Vinyl chloride | UL | SSL |

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01 File ID: 1ds017.D
 Sampled: 04/08/15 09:15 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 19:09
 Solids: 82.68 Preparation: EPA 3550C_MS Initial/Final: 30.1 g / 1 mL

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMs1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|--------------------------------|----------|-------------------|----|-----|-----|-----|
| 100-52-7 | Benzaldehyde EXCLUDE-RE | 1 | <360 | U | 330 | 360 | 400 |
| 108-95-2 | Phenol | 1 | <120 | U | 120 | 120 | 400 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <240 | UQ | 170 | 240 | 400 |
| 95-57-8 | 2-Chlorophenol | 1 | <360 | U | 280 | 360 | 400 |
| 95-48-7 | 2-Methylphenol | 1 | <240 | U | 130 | 240 | 400 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 120 | 120 | 400 |
| 98-86-2 | Acetophenone | 1 | <240 | UQ | 170 | 240 | 400 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <360 | U | 300 | 360 | 400 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <240 | U | 180 | 240 | 400 |
| 67-72-1 | Hexachloroethane | 1 | <120 | U | 120 | 120 | 400 |
| 98-95-3 | Nitrobenzene | 1 | <240 | U | 180 | 240 | 400 |
| 78-59-1 | Isophorone | 1 | <240 | U | 210 | 240 | 400 |
| 88-75-5 | 2-Nitrophenol | 1 | <360 | U | 310 | 360 | 400 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <360 | U | 280 | 360 | 400 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <240 | U | 180 | 240 | 400 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <360 | U | 300 | 360 | 400 |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 79 | 120 | 400 |
| 87-68-3 | Hexachlorobutadiene | 1 | <240 | U | 160 | 240 | 400 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <360 | UQ | 340 | 360 | 400 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <240 | UQ | 180 | 240 | 400 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 120 | 120 | 400 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <240 | UQ | 180 | 240 | 400 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | UQ | 81 | 120 | 400 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | UQ | 88 | 120 | 400 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 120 | 120 | 400 |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 100 | 120 | 400 |
| 131-11-3 | Dimethylphthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | <240 | UQ | 220 | 240 | 400 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 97 | 120 | 400 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 110 | 120 | 400 |
| 100-02-7 | 4-Nitrophenol | 1 | <240 | UQ | 160 | 240 | 400 |
| 132-64-9 | Dibenzofuran | 1 | <240 | U | 160 | 240 | 400 |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | <240 | UQ | 190 | 240 | 400 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01 File ID: 1ds017.D

Sampled: 04/08/15 09:15 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 19:09

Solids: 82.68 Preparation: EPA 3550C_MS Initial/Final: 30.1 g / 1 mL

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|---|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 1 | <240 | UQ | 190 | 240 | 400 |
| 84-66-2 | Diethylphthalate | 1 | 740 | Q | 160 | 240 | 400 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <240 | U | 160 | 240 | 400 |
| 100-01-6 | 4-Nitroaniline | 1 | <360 | U | 310 | 360 | 400 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <360 | U | 340 | 360 | 400 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <360 | U | 280 | 360 | 400 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <240 | UQ | 160 | 240 | 400 |
| 118-74-1 | Hexachlorobenzene | 1 | <240 | UQ | 150 | 240 | 400 |
| 1912-24-9 | Atrazine | 1 | <120 | U | 90 | 120 | 400 |
| 87-86-5 | Pentachlorophenol | 1 | <360 | U | 250 | 360 | 400 |
| 86-74-8 | Carbazole | 1 | <240 | U | 150 | 240 | 400 |
| 84-74-2 | Di-n-butylphthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 85-68-7 | Butylbenzylphthalate | 1 | <240 | UQ | 170 | 240 | 400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <360 | U | 250 | 360 | 400 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 117-84-0 | Di-n-octylphthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 105-60-2 | Caprolactam | 1 | <360 | UQ | 360 | 360 | 400 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 2010 | 1300 | 62 | 35 - 105 | |
| Phenol-d5 | 2010 | 1200 | 61 | 40 - 100 | |
| Nitrobenzene-d5 | 2010 | 1400 | 72 | 35 - 100 | |
| 2-Fluorobiphenyl | 2010 | 1400 | 69 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2010 | 2000 | 99 | 35 - 125 | |
| Terphenyl-d14 | 2010 | 1800 | 89 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 442799 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1601714 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 798877 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1236520 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 604953 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 249462 | 19.243 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01RE1 File ID: 1dw018.D

Sampled: 04/08/15 09:15 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 18:35

Solids: 82.68 Preparation: EPA 3550C_MS Initial/Final: 30.1 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|-------------------|-----------------------------|------------|-------------------|------|-----|-----|-----|-----|
| 100-52-7 | Benzaldehyde | 1 | <360 | U | 330 | 360 | 400 | |
| 108-95-2 | Phenol | 1 | <120 | U | 120 | 120 | 400 | |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <240 | UQ | 170 | 240 | 400 | |
| 95-57-8 | 2-Chlorophenol | 1 | <360 | U | 280 | 360 | 400 | |
| 95-48-7 | 2-Methylphenol | 1 | <240 | U | 130 | 240 | 400 | |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 120 | 120 | 400 | |
| 98-86-2 | Acetophenone | 1 | <240 | U | 170 | 240 | 400 | |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <360 | U | 300 | 360 | 400 | |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <240 | U | 180 | 240 | 400 | |
| 67-72-1 | Hexachloroethane | 1 | <120 | U | 120 | 120 | 400 | |
| 98-95-3 | Nitrobenzene | EXCLUDE-RE | 1 | <240 | U | 180 | 240 | 400 |
| 78-59-1 | Isophorone | 1 | <240 | U | 210 | 240 | 400 | |
| 88-75-5 | 2-Nitrophenol | 1 | <360 | U | 310 | 360 | 400 | |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <360 | U | 280 | 360 | 400 | |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <240 | U | 180 | 240 | 400 | |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <360 | U | 300 | 360 | 400 | |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 79 | 120 | 400 | |
| 87-68-3 | Hexachlorobutadiene | 1 | <240 | UQ | 160 | 240 | 400 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <360 | UQ | 340 | 360 | 400 | |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <240 | U | 180 | 240 | 400 | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 120 | 120 | 400 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <240 | UQ | 180 | 240 | 400 | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | UQ | 81 | 120 | 400 | |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | UQ | 88 | 120 | 400 | |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 120 | 120 | 400 | |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 100 | 120 | 400 | |
| 131-11-3 | Dimethylphthalate | 1 | <240 | UQ | 160 | 240 | 400 | |
| 606-20-2 | 2,6-Dinitrotoluene | EXCLUDE-RE | 1 | <240 | UQ | 220 | 240 | 400 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 97 | 120 | 400 | |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 110 | 120 | 400 | |
| 100-02-7 | 4-Nitrophenol | 1 | <240 | U | 160 | 240 | 400 | |
| 132-64-9 | Dibenzofuran | 1 | <240 | U | 160 | 240 | 400 | |
| 121-14-2 | 2,4-Dinitrotoluene | EXCLUDE-RE | 1 | <240 | UQ | 190 | 240 | 400 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01RE1 File ID: 1dw018.D

Sampled: 04/08/15 09:15 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 18:35

Solids: 82.68 Preparation: EPA 3550C_MS Initial/Final: 30.1 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMs1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|--------------------------------------|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <240 | UQ | 190 | 240 | 400 |
| 84-66-2 | Diethylphthalate | 1 | <240 | U | 160 | 240 | 400 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <240 | U | 160 | 240 | 400 |
| 100-01-6 | 4-Nitroaniline | 1 | <360 | U | 310 | 360 | 400 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <360 | U | 340 | 360 | 400 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <360 | UQ | 280 | 360 | 400 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <240 | UQ | 160 | 240 | 400 |
| 118-74-1 | Hexachlorobenzene | 1 | <240 | UQ | 150 | 240 | 400 |
| 1912-24-9 | Atrazine | 1 | <120 | UQ | 90 | 120 | 400 |
| 87-86-5 | Pentachlorophenol | 1 | <360 | U | 250 | 360 | 400 |
| 86-74-8 | Carbazole | 1 | <240 | U | 150 | 240 | 400 |
| 84-74-2 | Di-n-butylphthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 85-68-7 | Butylbenzylphthalate | 1 | <240 | UQ | 170 | 240 | 400 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <360 | U | 250 | 360 | 400 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 117-84-0 | Di-n-octylphthalate | 1 | <240 | UQ | 160 | 240 | 400 |
| 105-60-2 | Caprolactam | 1 | <360 | UQ | 360 | 360 | 400 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 2010 | 1300 | 63 | 35 - 105 | |
| Phenol-d5 | 2010 | 1400 | 70 | 40 - 100 | |
| Nitrobenzene-d5 | 2010 | 1200 | 60 | 35 - 100 | |
| 2-Fluorobiphenyl | 2010 | 1300 | 63 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2010 | 1800 | 90 | 35 - 125 | |
| Terphenyl-d14 | 2010 | 1900 | 92 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 484373 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 1852729 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 1033849 | 10.697 | 663746 | 10.753 | |
| Phenanthrone-d10 | 1767371 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 952953 | 16.176 | 565336 | 16.253 | |
| Perylene-d12 | 275030 | 19.133 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-02 File ID: 1ds007.D
 Sampled: 04/08/15 09:25 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 13:45
 Solids: 87.72 Preparation: EPA 3550C_MS Initial/Final: 30 g / 1 mL
 Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|--------------------------------|----------|-------------------|----|-----|-----|-----|
| 100-52-7 | Benzaldehyde EXCLUDE-RE | 1 | <340 | U | 310 | 340 | 380 |
| 108-95-2 | Phenol | 1 | <110 | U | 110 | 110 | 380 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <230 | UQ | 160 | 230 | 380 |
| 95-57-8 | 2-Chlorophenol | 1 | <340 | U | 260 | 340 | 380 |
| 95-48-7 | 2-Methylphenol | 1 | <230 | U | 130 | 230 | 380 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <110 | U | 110 | 110 | 380 |
| 98-86-2 | Acetophenone | 1 | <230 | UQ | 160 | 230 | 380 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <340 | U | 290 | 340 | 380 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <230 | U | 170 | 230 | 380 |
| 67-72-1 | Hexachloroethane | 1 | <110 | U | 110 | 110 | 380 |
| 98-95-3 | Nitrobenzene | 1 | <230 | U | 170 | 230 | 380 |
| 78-59-1 | Isophorone | 1 | <230 | U | 190 | 230 | 380 |
| 88-75-5 | 2-Nitrophenol | 1 | <340 | U | 300 | 340 | 380 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <340 | U | 260 | 340 | 380 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <230 | U | 170 | 230 | 380 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <340 | U | 290 | 340 | 380 |
| 106-47-8 | 4-Chloroaniline | 1 | <110 | U | 74 | 110 | 380 |
| 87-68-3 | Hexachlorobutadiene | 1 | <230 | U | 150 | 230 | 380 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <340 | UQ | 320 | 340 | 380 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <230 | UQ | 170 | 230 | 380 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <110 | U | 110 | 110 | 380 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <230 | UQ | 170 | 230 | 380 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <110 | UQ | 76 | 110 | 380 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <110 | UQ | 83 | 110 | 380 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <110 | U | 110 | 110 | 380 |
| 88-74-4 | 2-Nitroaniline | 1 | <110 | U | 97 | 110 | 380 |
| 131-11-3 | Dimethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | <230 | UQ | 210 | 230 | 380 |
| 99-09-2 | 3-Nitroaniline | 1 | <110 | U | 91 | 110 | 380 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <110 | U | 100 | 110 | 380 |
| 100-02-7 | 4-Nitrophenol | 1 | <230 | UQ | 150 | 230 | 380 |
| 132-64-9 | Dibenzofuran | 1 | <230 | U | 150 | 230 | 380 |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | <230 | UQ | 180 | 230 | 380 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-02 File ID: 1ds007.D
 Sampled: 04/08/15 09:25 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 13:45
 Solids: 87.72 Preparation: EPA 3550C_MS Initial/Final: 30 g / 1 mL
 Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|---|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 1 | <230 | UQ | 180 | 230 | 380 |
| 84-66-2 | Diethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <230 | U | 150 | 230 | 380 |
| 100-01-6 | 4-Nitroaniline | 1 | <340 | U | 300 | 340 | 380 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <340 | U | 320 | 340 | 380 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <340 | U | 260 | 340 | 380 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <230 | UQ | 150 | 230 | 380 |
| 118-74-1 | Hexachlorobenzene | 1 | <230 | UQ | 140 | 230 | 380 |
| 1912-24-9 | Atrazine | 1 | <110 | U | 84 | 110 | 380 |
| 87-86-5 | Pentachlorophenol | 1 | <340 | U | 240 | 340 | 380 |
| 86-74-8 | Carbazole | 1 | <230 | U | 140 | 230 | 380 |
| 84-74-2 | Di-n-butylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 85-68-7 | Butylbenzylphthalate | 1 | <230 | UQ | 160 | 230 | 380 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <340 | U | 240 | 340 | 380 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 117-84-0 | Di-n-octylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 105-60-2 | Caprolactam | 1 | <340 | UQ | 340 | 340 | 380 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 1900 | 1200 | 66 | 35 - 105 | |
| Phenol-d5 | 1900 | 1400 | 73 | 40 - 100 | |
| Nitrobenzene-d5 | 1900 | 1200 | 65 | 35 - 100 | |
| 2-Fluorobiphenyl | 1900 | 1300 | 66 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1900 | 1500 | 77 | 35 - 125 | |
| Terphenyl-d14 | 1900 | 1800 | 93 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 372314 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1371734 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 700891 | 10.771 | 663746 | 10.753 | |
| Phenanthrone-d10 | 1105647 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 585501 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 346978 | 19.252 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-02RE1 File ID: 1dw008.D
 Sampled: 04/08/15 09:25 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 13:32
 Solids: 87.72 Preparation: EPA 3550C_MS Initial/Final: 30 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|-------------------|-----------------------------|------------|-------------------|------|-----|-----|-----|-----|
| 100-52-7 | Benzaldehyde | 1 | <340 | U | 310 | 340 | 380 | |
| 108-95-2 | Phenol | 1 | <110 | U | 110 | 110 | 380 | |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <230 | UQ | 160 | 230 | 380 | |
| 95-57-8 | 2-Chlorophenol | 1 | <340 | U | 260 | 340 | 380 | |
| 95-48-7 | 2-Methylphenol | 1 | <230 | U | 130 | 230 | 380 | |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <110 | U | 110 | 110 | 380 | |
| 98-86-2 | Acetophenone | 1 | <230 | UQ | 160 | 230 | 380 | |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <340 | U | 290 | 340 | 380 | |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <230 | U | 170 | 230 | 380 | |
| 67-72-1 | Hexachloroethane | 1 | <110 | U | 110 | 110 | 380 | |
| 98-95-3 | Nitrobenzene | EXCLUDE-RE | 1 | <230 | U | 170 | 230 | 380 |
| 78-59-1 | Isophorone | 1 | <230 | U | 190 | 230 | 380 | |
| 88-75-5 | 2-Nitrophenol | 1 | <340 | U | 300 | 340 | 380 | |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <340 | U | 260 | 340 | 380 | |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <230 | U | 170 | 230 | 380 | |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <340 | U | 290 | 340 | 380 | |
| 106-47-8 | 4-Chloroaniline | 1 | <110 | U | 74 | 110 | 380 | |
| 87-68-3 | Hexachlorobutadiene | 1 | <230 | UQ | 150 | 230 | 380 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <340 | UQ | 320 | 340 | 380 | |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <230 | U | 170 | 230 | 380 | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <110 | U | 110 | 110 | 380 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <230 | UQ | 170 | 230 | 380 | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <110 | UQ | 76 | 110 | 380 | |
| 92-52-4 | 1,1'-Biphenyl | 1 | <110 | UQ | 83 | 110 | 380 | |
| 91-58-7 | 2-Chloronaphthalene | 1 | <110 | U | 110 | 110 | 380 | |
| 88-74-4 | 2-Nitroaniline | 1 | <110 | U | 97 | 110 | 380 | |
| 131-11-3 | Dimethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 | |
| 606-20-2 | 2,6-Dinitrotoluene | EXCLUDE-RE | 1 | <230 | UQ | 210 | 230 | 380 |
| 99-09-2 | 3-Nitroaniline | 1 | <110 | U | 91 | 110 | 380 | |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <110 | U | 100 | 110 | 380 | |
| 100-02-7 | 4-Nitrophenol | 1 | <230 | U | 150 | 230 | 380 | |
| 132-64-9 | Dibenzofuran | 1 | <230 | U | 150 | 230 | 380 | |
| 121-14-2 | 2,4-Dinitrotoluene | EXCLUDE-RE | 1 | <230 | UQ | 180 | 230 | 380 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-02RE1 File ID: 1dw008.D

Sampled: 04/08/15 09:25 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 13:32

Solids: 87.72 Preparation: EPA 3550C_MS Initial/Final: 30 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|--------------------------------------|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <230 | UQ | 180 | 230 | 380 |
| 84-66-2 | Diethylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <230 | U | 150 | 230 | 380 |
| 100-01-6 | 4-Nitroaniline | 1 | <340 | U | 300 | 340 | 380 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <340 | U | 320 | 340 | 380 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <340 | UQ | 260 | 340 | 380 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <230 | UQ | 150 | 230 | 380 |
| 118-74-1 | Hexachlorobenzene | 1 | <230 | UQ | 140 | 230 | 380 |
| 1912-24-9 | Atrazine | 1 | <110 | UQ | 84 | 110 | 380 |
| 87-86-5 | Pentachlorophenol | 1 | <340 | U | 240 | 340 | 380 |
| 86-74-8 | Carbazole | 1 | <230 | U | 140 | 230 | 380 |
| 84-74-2 | Di-n-butylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 85-68-7 | Butylbenzylphthalate | 1 | <230 | UQ | 160 | 230 | 380 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <340 | U | 240 | 340 | 380 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 117-84-0 | Di-n-octylphthalate | 1 | <230 | UQ | 150 | 230 | 380 |
| 105-60-2 | Caprolactam | 1 | <340 | UQ | 340 | 340 | 380 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 1900 | 1200 | 62 | 35 - 105 | |
| Phenol-d5 | 1900 | 1300 | 68 | 40 - 100 | |
| Nitrobenzene-d5 | 1900 | 1200 | 62 | 35 - 100 | |
| 2-Fluorobiphenyl | 1900 | 1200 | 64 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1900 | 1400 | 75 | 35 - 125 | |
| Terphenyl-d14 | 1900 | 2100 | 108 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 390511 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 1406679 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 742756 | 10.697 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1165264 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 781794 | 16.176 | 565336 | 16.253 | |
| Perylene-d12 | 523188 | 19.141 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05 File ID: 1ds008.D

Sampled: 04/08/15 10:10 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 14:14

Solids: 76.58 Preparation: EPA 3550C_MS Initial/Final: 30.2 g / 1 mL

Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|------------|-------------------|------|----|-----|-----|
| 100-52-7 | Benzaldehyde | EXCLUDE-RE | 1 | <390 | U | 350 | 390 |
| 108-95-2 | Phenol | | 1 | <130 | U | 130 | 130 |
| 111-44-4 | Bis(2-chloroethyl)ether | | 1 | <260 | UQ | 180 | 260 |
| 95-57-8 | 2-Chlorophenol | | 1 | <390 | U | 300 | 390 |
| 95-48-7 | 2-Methylphenol | | 1 | <260 | U | 140 | 260 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | | 1 | <130 | U | 130 | 130 |
| 98-86-2 | Acetophenone | | 1 | <260 | UQ | 180 | 260 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | | 1 | <390 | U | 330 | 390 |
| 621-64-7 | N-Nitroso-di-n-propylamine | | 1 | <260 | U | 200 | 260 |
| 67-72-1 | Hexachloroethane | | 1 | <130 | U | 130 | 130 |
| 98-95-3 | Nitrobenzene | | 1 | <260 | U | 200 | 260 |
| 78-59-1 | Isophorone | | 1 | <260 | U | 220 | 260 |
| 88-75-5 | 2-Nitrophenol | | 1 | <390 | U | 340 | 390 |
| 105-67-9 | 2,4-Dimethylphenol | | 1 | <390 | U | 300 | 390 |
| 111-91-1 | Bis(2-chloroethoxy)methane | | 1 | <260 | U | 200 | 260 |
| 120-83-2 | 2,4-Dichlorophenol | | 1 | <390 | U | 330 | 390 |
| 106-47-8 | 4-Chloroaniline | | 1 | <130 | U | 85 | 130 |
| 87-68-3 | Hexachlorobutadiene | | 1 | <260 | U | 170 | 260 |
| 59-50-7 | 4-Chloro-3-methylphenol | | 1 | <390 | UQ | 370 | 390 |
| 77-47-4 | Hexachlorocyclopentadiene | | 1 | <260 | UQ | 200 | 260 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | | 1 | <130 | U | 130 | 130 |
| 88-06-2 | 2,4,6-Trichlorophenol | | 1 | <260 | UQ | 200 | 260 |
| 95-95-4 | 2,4,5-Trichlorophenol | | 1 | <130 | UQ | 87 | 130 |
| 92-52-4 | 1,1'-Biphenyl | | 1 | <130 | UQ | 95 | 130 |
| 91-58-7 | 2-Chloronaphthalene | | 1 | <130 | U | 130 | 130 |
| 88-74-4 | 2-Nitroaniline | | 1 | <130 | U | 110 | 130 |
| 131-11-3 | Dimethylphthalate | | 1 | <260 | UQ | 170 | 260 |
| 606-20-2 | 2,6-Dinitrotoluene | | 1 | <260 | UQ | 240 | 260 |
| 99-09-2 | 3-Nitroaniline | | 1 | <130 | U | 100 | 130 |
| 51-28-5 | 2,4-Dinitrophenol | | 1 | <130 | U | 120 | 130 |
| 100-02-7 | 4-Nitrophenol | | 1 | <260 | UQ | 170 | 260 |
| 132-64-9 | Dibenzofuran | | 1 | <260 | U | 170 | 260 |
| 121-14-2 | 2,4-Dinitrotoluene | | 1 | <260 | UQ | 210 | 260 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05 File ID: 1ds008.D
 Sampled: 04/08/15 10:10 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 14:14
 Solids: 76.58 Preparation: EPA 3550C_MS Initial/Final: 30.2 g / 1 mL
 Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|---|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 1 | <260 | UQ | 210 | 260 | 430 |
| 84-66-2 | Diethylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <260 | U | 170 | 260 | 430 |
| 100-01-6 | 4-Nitroaniline | 1 | <390 | U | 340 | 390 | 430 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <390 | U | 370 | 390 | 430 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <390 | U | 300 | 390 | 430 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <260 | UQ | 170 | 260 | 430 |
| 118-74-1 | Hexachlorobenzene | 1 | <260 | UQ | 160 | 260 | 430 |
| 1912-24-9 | Atrazine | 1 | <130 | U | 97 | 130 | 430 |
| 87-86-5 | Pentachlorophenol | 1 | <390 | U | 270 | 390 | 430 |
| 86-74-8 | Carbazole | 1 | <260 | U | 160 | 260 | 430 |
| 84-74-2 | Di-n-butylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 85-68-7 | Butylbenzylphthalate | 1 | <260 | UQ | 180 | 260 | 430 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <390 | U | 270 | 390 | 430 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 117-84-0 | Di-n-octylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 105-60-2 | Caprolactam | 1 | <390 | UQ | 390 | 390 | 430 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 2160 | 1600 | 76 | 35 - 105 | |
| Phenol-d5 | 2160 | 1800 | 85 | 40 - 100 | |
| Nitrobenzene-d5 | 2160 | 1700 | 78 | 35 - 100 | |
| 2-Fluorobiphenyl | 2160 | 1900 | 87 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2160 | 2100 | 95 | 35 - 125 | |
| Terphenyl-d14 | 2160 | 2300 | 107 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 387347 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1428345 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 719179 | 10.771 | 663746 | 10.753 | |
| Phenanthrone-d10 | 1112100 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 569732 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 332841 | 19.252 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05RE1 File ID: 1dw009.D

Sampled: 04/08/15 10:10 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 14:01

Solids: 76.58 Preparation: EPA 3550C_MS Initial/Final: 30.2 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|------------|-------------------|----|-----|-----|-----|
| 100-52-7 | Benzaldehyde | 1 | <390 | U | 350 | 390 | 430 |
| 108-95-2 | Phenol | 1 | <130 | U | 130 | 130 | 430 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <260 | UQ | 180 | 260 | 430 |
| 95-57-8 | 2-Chlorophenol | 1 | <390 | U | 300 | 390 | 430 |
| 95-48-7 | 2-Methylphenol | 1 | <260 | U | 140 | 260 | 430 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <130 | U | 130 | 130 | 430 |
| 98-86-2 | Acetophenone | 1 | <260 | UQ | 180 | 260 | 430 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <390 | U | 330 | 390 | 430 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <260 | U | 200 | 260 | 430 |
| 67-72-1 | Hexachloroethane | 1 | <130 | U | 130 | 130 | 430 |
| 98-95-3 | Nitrobenzene | EXCLUDE-RE | 1 <260 | U | 200 | 260 | 430 |
| 78-59-1 | Isophorone | 1 | <260 | U | 220 | 260 | 430 |
| 88-75-5 | 2-Nitrophenol | 1 | <390 | U | 340 | 390 | 430 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <390 | U | 300 | 390 | 430 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <260 | U | 200 | 260 | 430 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <390 | U | 330 | 390 | 430 |
| 106-47-8 | 4-Chloroaniline | 1 | <130 | U | 85 | 130 | 430 |
| 87-68-3 | Hexachlorobutadiene | 1 | <260 | UQ | 170 | 260 | 430 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <390 | UQ | 370 | 390 | 430 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <260 | U | 200 | 260 | 430 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <130 | U | 130 | 130 | 430 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <260 | UQ | 200 | 260 | 430 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <130 | UQ | 87 | 130 | 430 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <130 | UQ | 95 | 130 | 430 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <130 | U | 130 | 130 | 430 |
| 88-74-4 | 2-Nitroaniline | 1 | <130 | U | 110 | 130 | 430 |
| 131-11-3 | Dimethylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 606-20-2 | 2,6-Dinitrotoluene | EXCLUDE-RE | 1 <260 | UQ | 240 | 260 | 430 |
| 99-09-2 | 3-Nitroaniline | 1 | <130 | U | 100 | 130 | 430 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <130 | U | 120 | 130 | 430 |
| 100-02-7 | 4-Nitrophenol | 1 | <260 | U | 170 | 260 | 430 |
| 132-64-9 | Dibenzofuran | 1 | <260 | U | 170 | 260 | 430 |
| 121-14-2 | 2,4-Dinitrotoluene | EXCLUDE-RE | 1 <260 | UQ | 210 | 260 | 430 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05RE1 File ID: 1dw009.D

Sampled: 04/08/15 10:10 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 14:01

Solids: 76.58 Preparation: EPA 3550C_MS Initial/Final: 30.2 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|--------------------------------------|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <260 | UQ | 210 | 260 | 430 |
| 84-66-2 | Diethylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <260 | U | 170 | 260 | 430 |
| 100-01-6 | 4-Nitroaniline | 1 | <390 | U | 340 | 390 | 430 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <390 | U | 370 | 390 | 430 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <390 | UQ | 300 | 390 | 430 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <260 | UQ | 170 | 260 | 430 |
| 118-74-1 | Hexachlorobenzene | 1 | <260 | UQ | 160 | 260 | 430 |
| 1912-24-9 | Atrazine | 1 | <130 | UQ | 97 | 130 | 430 |
| 87-86-5 | Pentachlorophenol | 1 | <390 | U | 270 | 390 | 430 |
| 86-74-8 | Carbazole | 1 | <260 | U | 160 | 260 | 430 |
| 84-74-2 | Di-n-butylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 85-68-7 | Butylbenzylphthalate | 1 | <260 | UQ | 180 | 260 | 430 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <390 | U | 270 | 390 | 430 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 117-84-0 | Di-n-octylphthalate | 1 | <260 | UQ | 170 | 260 | 430 |
| 105-60-2 | Caprolactam | 1 | <390 | UQ | 390 | 390 | 430 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 2160 | 1600 | 72 | 35 - 105 | |
| Phenol-d5 | 2160 | 1700 | 78 | 40 - 100 | |
| Nitrobenzene-d5 | 2160 | 1600 | 73 | 35 - 100 | |
| 2-Fluorobiphenyl | 2160 | 1800 | 81 | 45 - 105 | |
| 2,4,6-Tribromophenol | 2160 | 2000 | 91 | 35 - 125 | |
| Terphenyl-d14 | 2160 | 2300 | 108 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 448141 | 6.916 | 312803 | 6.966 | |
| Naphthalene-d8 | 1664820 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 851425 | 10.697 | 663746 | 10.753 | |
| Phenanthrone-d10 | 1319776 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 791182 | 16.176 | 565336 | 16.253 | |
| Perylene-d12 | 458260 | 19.141 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06 File ID: 1ds009.D
 Sampled: 04/08/15 10:15 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 14:44
 Solids: 84.82 Preparation: EPA 3550C_MS Initial/Final: 30.3 g / 1 mL
 Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|--------------------------------|----------|-------------------|----|-----|-----|-----|
| 100-52-7 | Benzaldehyde EXCLUDE-RE | 1 | <350 | U | 320 | 350 | 390 |
| 108-95-2 | Phenol | 1 | <120 | U | 120 | 120 | 390 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <240 | UQ | 170 | 240 | 390 |
| 95-57-8 | 2-Chlorophenol | 1 | <350 | U | 270 | 350 | 390 |
| 95-48-7 | 2-Methylphenol | 1 | <240 | U | 130 | 240 | 390 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 120 | 120 | 390 |
| 98-86-2 | Acetophenone | 1 | <240 | UQ | 170 | 240 | 390 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <350 | U | 290 | 350 | 390 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <240 | U | 180 | 240 | 390 |
| 67-72-1 | Hexachloroethane | 1 | <120 | U | 120 | 120 | 390 |
| 98-95-3 | Nitrobenzene | 1 | <240 | U | 180 | 240 | 390 |
| 78-59-1 | Isophorone | 1 | <240 | U | 200 | 240 | 390 |
| 88-75-5 | 2-Nitrophenol | 1 | <350 | U | 310 | 350 | 390 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <350 | U | 270 | 350 | 390 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <240 | U | 180 | 240 | 390 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <350 | U | 290 | 350 | 390 |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 77 | 120 | 390 |
| 87-68-3 | Hexachlorobutadiene | 1 | <240 | U | 150 | 240 | 390 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <350 | UQ | 330 | 350 | 390 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <240 | UQ | 180 | 240 | 390 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 120 | 120 | 390 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <240 | UQ | 180 | 240 | 390 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | UQ | 79 | 120 | 390 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | UQ | 86 | 120 | 390 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 120 | 120 | 390 |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 100 | 120 | 390 |
| 131-11-3 | Dimethylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | <240 | UQ | 210 | 240 | 390 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 94 | 120 | 390 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 100 | 120 | 390 |
| 100-02-7 | 4-Nitrophenol | 1 | <240 | UQ | 150 | 240 | 390 |
| 132-64-9 | Dibenzofuran | 1 | <240 | U | 150 | 240 | 390 |
| 121-14-2 | 2,4-Dinitrotoluene | 1 | <240 | UQ | 190 | 240 | 390 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06 File ID: 1ds009.D
 Sampled: 04/08/15 10:15 Prepared: 04/13/15 11:30 Analyzed: 04/24/15 14:44
 Solids: 84.82 Preparation: EPA 3550C_MS Initial/Final: 30.3 g / 1 mL
 Batch: 5D13002 Sequence: AA33589 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|---|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol EXCLUDE-RE | 1 | <240 | UQ | 190 | 240 | 390 |
| 84-66-2 | Diethylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <240 | U | 150 | 240 | 390 |
| 100-01-6 | 4-Nitroaniline | 1 | <350 | U | 310 | 350 | 390 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <350 | U | 330 | 350 | 390 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <350 | U | 270 | 350 | 390 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <240 | UQ | 150 | 240 | 390 |
| 118-74-1 | Hexachlorobenzene | 1 | <240 | UQ | 140 | 240 | 390 |
| 1912-24-9 | Atrazine | 1 | <120 | U | 87 | 120 | 390 |
| 87-86-5 | Pentachlorophenol | 1 | <350 | U | 250 | 350 | 390 |
| 86-74-8 | Carbazole | 1 | <240 | U | 140 | 240 | 390 |
| 84-74-2 | Di-n-butylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 85-68-7 | Butylbenzylphthalate | 1 | <240 | UQ | 170 | 240 | 390 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <350 | U | 250 | 350 | 390 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 117-84-0 | Di-n-octylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 105-60-2 | Caprolactam | 1 | <350 | UQ | 350 | 350 | 390 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 1950 | 1400 | 74 | 35 - 105 | |
| Phenol-d5 | 1950 | 1700 | 85 | 40 - 100 | |
| Nitrobenzene-d5 | 1950 | 1400 | 73 | 35 - 100 | |
| 2-Fluorobiphenyl | 1950 | 1400 | 74 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1950 | 1800 | 95 | 35 - 125 | |
| Terphenyl-d14 | 1950 | 2100 | 110 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 362347 | 6.996 | 312803 | 6.966 | |
| Naphthalene-d8 | 1339500 | 8.564 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 702539 | 10.771 | 663746 | 10.753 | |
| Phenanthrene-d10 | 1163345 | 12.65 | 1098576 | 12.637 | |
| Chrysene-d12 | 642016 | 16.275 | 565336 | 16.253 | |
| Perylene-d12 | 314230 | 19.251 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8270D

| Laboratory: | <u>ENCO Orlando</u> | SDG: | <u>A501753-CTOWE19</u> | | | | | |
|-----------------------|--------------------------------|-------------------|--|----------------|-----------------------|-------------|----------------|-----|
| Client: | <u>CH2M Hill, Inc. (CH025)</u> | Project: | <u>CTO-WE19 Yorktown Site 25-SOILS</u> | | | | | |
| Matrix: | <u>Soil</u> | Laboratory ID: | <u>A501753-06RE1</u> | File ID: | <u>1dw010.D</u> | | | |
| Sampled: | <u>04/08/15 10:15</u> | Prepared: | <u>04/13/15 11:30</u> | Analyzed: | <u>04/28/15 14:38</u> | | | |
| Solids: | <u>84.82</u> | Preparation: | <u>EPA 3550C_MS</u> | Initial/Final: | <u>30.3 g / 1 mL</u> | | | |
| Batch: | <u>5D13002</u> | Sequence: | <u>AA33622</u> | Calibration: | <u>1501007</u> | Instrument: | <u>OSVGCM斯</u> | |
| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
| 100-52-7 | Benzaldehyde | 1 | <350 | U | 320 | 350 | 390 | |
| 108-95-2 | Phenol | 1 | <120 | U | 120 | 120 | 390 | |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <240 | UQ | 170 | 240 | 390 | |
| 95-57-8 | 2-Chlorophenol | 1 | <350 | U | 270 | 350 | 390 | |
| 95-48-7 | 2-Methylphenol | 1 | <240 | U | 130 | 240 | 390 | |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <120 | U | 120 | 120 | 390 | |
| 98-86-2 | Acetophenone | 1 | <240 | UQ | 170 | 240 | 390 | |
| 108-39-4/106-44 -5 | 3 & 4-Methylphenol | 1 | <350 | U | 290 | 350 | 390 | |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <240 | U | 180 | 240 | 390 | |
| 67-72-1 | Hexachloroethane | 1 | <120 | U | 120 | 120 | 390 | |
| 98-95-3 | Nitrobenzene | EXCLUDE-RE | 1 | <240 | U | 180 | 240 | 390 |
| 78-59-1 | Isophorone | 1 | <240 | U | 200 | 240 | 390 | |
| 88-75-5 | 2-Nitrophenol | 1 | <350 | U | 310 | 350 | 390 | |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <350 | U | 270 | 350 | 390 | |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <240 | U | 180 | 240 | 390 | |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <350 | U | 290 | 350 | 390 | |
| 106-47-8 | 4-Chloroaniline | 1 | <120 | U | 77 | 120 | 390 | |
| 87-68-3 | Hexachlorobutadiene | 1 | <240 | UQ | 150 | 240 | 390 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <350 | UQ | 330 | 350 | 390 | |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <240 | U | 180 | 240 | 390 | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <120 | U | 120 | 120 | 390 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <240 | UQ | 180 | 240 | 390 | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <120 | UQ | 79 | 120 | 390 | |
| 92-52-4 | 1,1'-Biphenyl | 1 | <120 | UQ | 86 | 120 | 390 | |
| 91-58-7 | 2-Chloronaphthalene | 1 | <120 | U | 120 | 120 | 390 | |
| 88-74-4 | 2-Nitroaniline | 1 | <120 | U | 100 | 120 | 390 | |
| 131-11-3 | Dimethylphthalate | 1 | <240 | UQ | 150 | 240 | 390 | |
| 606-20-2 | 2,6-Dinitrotoluene | EXCLUDE-RE | 1 | <240 | UQ | 210 | 240 | 390 |
| 99-09-2 | 3-Nitroaniline | 1 | <120 | U | 94 | 120 | 390 | |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <120 | U | 100 | 120 | 390 | |
| 100-02-7 | 4-Nitrophenol | 1 | <240 | U | 150 | 240 | 390 | |
| 132-64-9 | Dibenzofuran | 1 | <240 | U | 150 | 240 | 390 | |
| 121-14-2 | 2,4-Dinitrotoluene | EXCLUDE-RE | 1 | <240 | UQ | 190 | 240 | 390 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06RE1 File ID: 1dw010.D

Sampled: 04/08/15 10:15 Prepared: 04/13/15 11:30 Analyzed: 04/28/15 14:38

Solids: 84.82 Preparation: EPA 3550C_MS Initial/Final: 30.3 g / 1 mL

Batch: 5D13002 Sequence: AA33622 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------------|--------------------------------------|----------|-------------------|----|-----|-----|-----|
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <240 | UQ | 190 | 240 | 390 |
| 84-66-2 | Diethylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <240 | U | 150 | 240 | 390 |
| 100-01-6 | 4-Nitroaniline | 1 | <350 | U | 310 | 350 | 390 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <350 | U | 330 | 350 | 390 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <350 | UQ | 270 | 350 | 390 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <240 | UQ | 150 | 240 | 390 |
| 118-74-1 | Hexachlorobenzene | 1 | <240 | UQ | 140 | 240 | 390 |
| 1912-24-9 | Atrazine | 1 | <120 | UQ | 87 | 120 | 390 |
| 87-86-5 | Pentachlorophenol | 1 | <350 | U | 250 | 350 | 390 |
| 86-74-8 | Carbazole | 1 | <240 | U | 140 | 240 | 390 |
| 84-74-2 | Di-n-butylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 85-68-7 | Butylbenzylphthalate | 1 | <240 | UQ | 170 | 240 | 390 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <350 | U | 250 | 350 | 390 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 117-84-0 | Di-n-octylphthalate | 1 | <240 | UQ | 150 | 240 | 390 |
| 105-60-2 | Caprolactam | 1 | <350 | UQ | 350 | 350 | 390 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| 2-Fluorophenol | 1950 | 1500 | 79 | 35 - 105 | |
| Phenol-d5 | 1950 | 1700 | 87 | 40 - 100 | |
| Nitrobenzene-d5 | 1950 | 1500 | 75 | 35 - 100 | |
| 2-Fluorobiphenyl | 1950 | 1500 | 75 | 45 - 105 | |
| 2,4,6-Tribromophenol | 1950 | 2000 | 103 | 35 - 125 | |
| Terphenyl-d14 | 1950 | 2300 | 120 | 30 - 125 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 324167 | 6.926 | 312803 | 6.966 | |
| Naphthalene-d8 | 1250662 | 8.49 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 689780 | 10.697 | 663746 | 10.753 | |
| Phenanthrone-d10 | 1162096 | 12.576 | 1098576 | 12.637 | |
| Chrysene-d12 | 714474 | 16.176 | 565336 | 16.253 | |
| Perylene-d12 | 461841 | 19.141 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14 File ID: 1do016.D
 Sampled: 04/08/15 13:45 Prepared: 04/15/15 04:45 Analyzed: 04/20/15 15:28
 Solids: Preparation: EPA 3510C_MS Initial/Final: 500 mL / 0.5 mL

Batch: 5D14002 Sequence: AA33505 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|-------------------|--------------------------------|----------|--------------|----|-----|-----|-----|
| 100-52-7 | Benzaldehyde EXCLUDE-RE | 1 | <9.0 | U | 6.3 | 9.0 | 10 |
| 108-95-2 | Phenol | 1 | <6.0 | U | 5.6 | 6.0 | 10 |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 95-57-8 | 2-Chlorophenol | 1 | <9.0 | U | 7.4 | 9.0 | 10 |
| 95-48-7 | 2-Methylphenol | 1 | <6.0 | U | 3.5 | 6.0 | 10 |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <6.0 | U | 3.5 | 6.0 | 10 |
| 98-86-2 | Acetophenone | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <9.0 | UQ | 8.2 | 9.0 | 10 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <6.0 | U | 4.5 | 6.0 | 10 |
| 67-72-1 | Hexachloroethane | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 98-95-3 | Nitrobenzene | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 78-59-1 | Isophorone | 1 | <6.0 | U | 4.5 | 6.0 | 10 |
| 88-75-5 | 2-Nitrophenol | 1 | <6.0 | U | 5.2 | 6.0 | 10 |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <6.0 | UQ | 3.3 | 6.0 | 10 |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <9.0 | U | 6.5 | 9.0 | 10 |
| 106-47-8 | 4-Chloroaniline | 1 | <6.0 | U | 4.3 | 6.0 | 10 |
| 87-68-3 | Hexachlorobutadiene | 1 | <6.0 | U | 4.1 | 6.0 | 10 |
| 105-60-2 | Caprolactam | 1 | <3.0 | U | 2.7 | 3.0 | 10 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <9.0 | U | 7.3 | 9.0 | 10 |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <6.0 | U | 3.8 | 6.0 | 10 |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <9.0 | U | 3.2 | 9.0 | 10 |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <6.0 | U | 3.9 | 6.0 | 10 |
| 92-52-4 | 1,1'-Biphenyl | 1 | <9.0 | U | 7.0 | 9.0 | 10 |
| 91-58-7 | 2-Chloronaphthalene | 1 | <6.0 | UQ | 3.2 | 6.0 | 10 |
| 88-74-4 | 2-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 131-11-3 | Dimethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 606-20-2 | 2,6-Dinitrotoluene | 1 | <3.0 | U | 2.9 | 3.0 | 10 |
| 99-09-2 | 3-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <9.0 | U | 7.7 | 9.0 | 10 |
| 100-02-7 | 4-Nitrophenol | 1 | <9.0 | UQ | 7.9 | 9.0 | 10 |
| 132-64-9 | Dibenzofuran | 1 | <3.0 | U | 2.8 | 3.0 | 10 |

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14 File ID: 1do016.D
 Sampled: 04/08/15 13:45 Prepared: 04/15/15 04:45 Analyzed: 04/20/15 15:28
 Solids: Preparation: EPA 3510C_MS Initial/Final: 500 mL / 0.5 mL

Batch: SD14002 Sequence: AA33505 Calibration: 1501007 Instrument: OSVGCM斯

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|------------------|--------------------------------------|----------|--------------|----|-----|-----|-----|
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <6.0 | UQ | 3.4 | 6.0 | 10 |
| 84-66-2 | Diethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 100-01-6 | 4-Nitroaniline | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <6.0 | U | 6.0 | 6.0 | 10 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <6.0 | U | 5.4 | 6.0 | 10 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 118-74-1 | Hexachlorobenzene | 1 | <6.0 | U | 3.0 | 6.0 | 10 |
| 1912-24-9 | Atrazine | 1 | <3.0 | UQ | 2.9 | 3.0 | 10 |
| 87-86-5 | Pentachlorophenol | 1 | <9.0 | U | 8.2 | 9.0 | 10 |
| 86-74-8 | Carbazole | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 84-74-2 | Di-n-butylphthalate | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 85-68-7 | Butylbenzylphthalate | 1 | <6.0 | UQ | 5.1 | 6.0 | 10 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <6.0 | UQ | 3.5 | 6.0 | 10 |
| 117-84-0 | Di-n-octylphthalate | 1 | <6.0 | UQ | 3.6 | 6.0 | 10 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|----------------------------|--------------|-------------|-------|-----------|---|
| 2-Fluorophenol | 50.0 | 21 | 42 | 20 - 110 | |
| Phenol-d5 | 50.0 | 14 | 28 | 10 - 115 | |
| Nitrobenzene-d5 | 50.0 | 29 | 59 | 40 - 110 | |
| 2-Fluorobiphenyl | 50.0 | 33 | 66 | 50 - 110 | |
| 2,4,6-Tribromophenol | 50.0 | 33 | 66 | 40 - 125 | |
| Terphenyl-d14 | 50.0 | 57 | 114 | 50 - 135 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 272751 | 6.816 | 312803 | 6.966 | |
| Naphthalene-d8 | 1048407 | 8.378 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 577753 | 10.585 | 663746 | 10.753 | |
| Phenanthrone-d10 | 859530 | 12.452 | 1098576 | 12.637 | |
| Chrysene-d12 | 443463 | 15.999 | 565336 | 16.253 | |
| Perylene-d12 | 321585 | 18.929 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14RE1 File ID: 1dp008.D
 Sampled: 04/08/15 13:45 Prepared: 04/15/15 04:45 Analyzed: 04/21/15 13:38
 Solids: Preparation: EPA 3510C_MS Initial/Final: 500 mL / 0.5 mL

Batch: 5D14002 Sequence: AA33526 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ | |
|-------------------|-----------------------------|-------------------|--------------|----------------|-----------|-----|-----|----|
| 100-52-7 | Benzaldehyde | 1 | <9.0 | U | 6.3 | 9.0 | 10 | |
| 108-95-2 | Phenol | 1 | <6.0 | U | 5.6 | 6.0 | 10 | |
| 111-44-4 | Bis(2-chloroethyl)ether | 1 | <6.0 | U | 3.8 | 6.0 | 10 | |
| 95-57-8 | 2-Chlorophenol | 1 | <9.0 | U | 7.4 | 9.0 | 10 | |
| 95-48-7 | 2-Methylphenol | 1 | <6.0 | U | 3.5 | 6.0 | 10 | |
| 108-60-1 | Bis(2-chloroisopropyl)ether | 1 | <6.0 | U | 3.5 | 6.0 | 10 | |
| 98-86-2 | Acetophenone | 1 | <6.0 | U | 3.8 | 6.0 | 10 | |
| 108-39-4/106-44-5 | 3 & 4-Methylphenol | 1 | <9.0 | U | 8.2 | 9.0 | 10 | |
| 621-64-7 | N-Nitroso-di-n-propylamine | 1 | <6.0 | U | 4.5 | 6.0 | 10 | |
| 67-72-1 | Hexachloroethane | 1 | <3.0 | U | 3.0 | 3.0 | 10 | |
| 98-95-3 | Nitrobenzene | EXCLUDE-RE | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 78-59-1 | Isophorone | 1 | <6.0 | U | 4.5 | 6.0 | 10 | |
| 88-75-5 | 2-Nitrophenol | 1 | <6.0 | U | 5.2 | 6.0 | 10 | |
| 105-67-9 | 2,4-Dimethylphenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 | |
| 111-91-1 | Bis(2-chloroethoxy)methane | 1 | <6.0 | U | 3.3 | 6.0 | 10 | |
| 120-83-2 | 2,4-Dichlorophenol | 1 | <9.0 | U | 6.5 | 9.0 | 10 | |
| 106-47-8 | 4-Chloroaniline | 1 | <6.0 | U | 4.3 | 6.0 | 10 | |
| 87-68-3 | Hexachlorobutadiene | 1 | <6.0 | U | 4.1 | 6.0 | 10 | |
| 105-60-2 | Caprolactam | UJ-CCL | 1 | <3.0 | UQ | 2.7 | 3.0 | 10 |
| 59-50-7 | 4-Chloro-3-methylphenol | 1 | <9.0 | U | 7.3 | 9.0 | 10 | |
| 77-47-4 | Hexachlorocyclopentadiene | 1 | <6.0 | U | 3.8 | 6.0 | 10 | |
| 95-94-3 | 1,2,4,5-Tetrachlorobenzene | 1 | <9.0 | U | 3.2 | 9.0 | 10 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 1 | <9.0 | U | 6.4 | 9.0 | 10 | |
| 95-95-4 | 2,4,5-Trichlorophenol | 1 | <6.0 | U | 3.9 | 6.0 | 10 | |
| 92-52-4 | 1,1'-Biphenyl | 1 | <9.0 | U | 7.0 | 9.0 | 10 | |
| 91-58-7 | 2-Chloronaphthalene | UL-BSL | 1 | <6.0 | UQ | 3.2 | 6.0 | 10 |
| 88-74-4 | 2-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 | |
| 131-11-3 | Dimethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 | |
| 606-20-2 | 2,6-Dinitrotoluene | EXCLUDE-RE | 1 | <3.0 | U | 2.9 | 3.0 | 10 |
| 99-09-2 | 3-Nitroaniline | 1 | <6.0 | U | 3.3 | 6.0 | 10 | |
| 51-28-5 | 2,4-Dinitrophenol | 1 | <9.0 | U | 7.7 | 9.0 | 10 | |
| 100-02-7 | 4-Nitrophenol | 1 | <9.0 | UQ | 7.9 | 9.0 | 10 | |
| 132-64-9 | Dibenzofuran | 1 | <3.0 | U | 2.8 | 3.0 | 10 | |

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14RE1 File ID: 1dp008.D
 Sampled: 04/08/15 13:45 Prepared: 04/15/15 04:45 Analyzed: 04/21/15 13:38
 Solids: Preparation: EPA 3510C_MS Initial/Final: 500 mL / 0.5 mL

Batch: SD14002 Sequence: AA33526 Calibration: 1501007 Instrument: OSVGCMS1

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|------------------|--------------------------------------|----------|--------------|----|-----|-----|-----|
| 121-14-2 | 2,4-Dinitrotoluene EXCLUDE-RE | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 58-90-2 | 2,3,4,6-Tetrachlorophenol | 1 | <6.0 | UQ | 3.4 | 6.0 | 10 |
| 84-66-2 | Diethylphthalate | 1 | <3.0 | U | 3.0 | 3.0 | 10 |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 100-01-6 | 4-Nitroaniline | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 1 | <6.0 | U | 6.0 | 6.0 | 10 |
| 86-30-6/122-39-4 | N-nitrosodiphenylamine/Diphenylamine | 1 | <6.0 | UQ | 5.4 | 6.0 | 10 |
| 101-55-3 | 4-Bromophenyl-phenylether | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 118-74-1 | Hexachlorobenzene | 1 | <6.0 | U | 3.0 | 6.0 | 10 |
| 1912-24-9 | Atrazine | 1 | <3.0 | U | 2.9 | 3.0 | 10 |
| 87-86-5 | Pentachlorophenol | 1 | <9.0 | U | 8.2 | 9.0 | 10 |
| 86-74-8 | Carbazole | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 84-74-2 | Di-n-butylphthalate | 1 | <6.0 | U | 3.2 | 6.0 | 10 |
| 85-68-7 | Butylbenzylphthalate | 1 | <6.0 | U | 5.1 | 6.0 | 10 |
| 91-94-1 | 3,3'-Dichlorobenzidine | 1 | <6.0 | U | 3.3 | 6.0 | 10 |
| 117-81-7 | Bis(2-ethylhexyl)phthalate | 1 | <6.0 | UQ | 3.5 | 6.0 | 10 |
| 117-84-0 | Di-n-octylphthalate | 1 | <6.0 | UQ | 3.6 | 6.0 | 10 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|----------------------------|--------------|-------------|-------|-----------|---|
| 2-Fluorophenol | 50.0 | 22 | 43 | 20 - 110 | |
| Phenol-d5 | 50.0 | 15 | 30 | 10 - 115 | |
| Nitrobenzene-d5 | 50.0 | 30 | 60 | 40 - 110 | |
| 2-Fluorobiphenyl | 50.0 | 32 | 65 | 50 - 110 | |
| 2,4,6-Tribromophenol | 50.0 | 39 | 79 | 40 - 125 | |
| Terphenyl-d14 | 50.0 | 62 | 124 | 50 - 135 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| 1,4-Dichlorobenzene-d4 | 483708 | 6.956 | 312803 | 6.966 | |
| Naphthalene-d8 | 1807620 | 8.527 | 1202138 | 8.546 | |
| Acenaphthene-d10 | 958500 | 10.725 | 663746 | 10.753 | |
| Phenanthrone-d10 | 1568874 | 12.6 | 1098576 | 12.637 | |
| Chrysene-d12 | 829918 | 16.209 | 565336 | 16.253 | |
| Perylene-d12 | 442277 | 19.175 | 404946 | 19.226 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01 File ID: 2dq027.D

Sampled: 04/08/15 09:15 Prepared: 04/15/15 08:30 Analyzed: 04/22/15 13:31

Solids: 82.68 Preparation: EPA 3550C_MS Initial/Final: 15 g / 300 mL

Batch: 5D15010 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMs2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|----------|------------------------|----------|-------------------|---|----|-----|-----|
| 91-57-6 | 2-Methylnaphthalene | 1 | <33 | U | 22 | 33 | 42 |
| 91-20-3 | Naphthalene | 1 | <33 | U | 22 | 33 | 42 |
| 208-96-8 | Acenaphthylene | 1 | <33 | U | 22 | 33 | 42 |
| 83-32-9 | Acenaphthene | 1 | <33 | U | 18 | 33 | 42 |
| 86-73-7 | Fluorene | 1 | <33 | U | 21 | 33 | 42 |
| 85-01-8 | Phenanthrene | 1 | <33 | U | 18 | 33 | 42 |
| 120-12-7 | Anthracene | 1 | <33 | U | 17 | 33 | 42 |
| 206-44-0 | Fluoranthene | 1 | <33 | U | 21 | 33 | 42 |
| 129-00-0 | Pyrene | 1 | <33 | U | 19 | 33 | 42 |
| 56-55-3 | Benzo(a)anthracene | 1 | <33 | U | 17 | 33 | 42 |
| 218-01-9 | Chrysene | 1 | <33 | U | 15 | 33 | 42 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <33 | U | 21 | 33 | 42 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <33 | U | 23 | 33 | 42 |
| 50-32-8 | Benzo(a)pyrene | 1 | <33 | U | 18 | 33 | 42 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <33 | U | 18 | 33 | 42 |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | <33 | U | 19 | 33 | 42 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <33 | U | 18 | 33 | 42 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| p-Terphenyl | 2420 | 2100 | 85 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|-------------------|--------|--------|----------|--------|---|
| Naphthalene-d8 | 167038 | 5.468 | 229213 | 5.468 | |
| Acenaphthene-d10 | 110395 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 180999 | 8.782 | 198421 | 8.783 | |
| Chrysene-d12 | 168035 | 11.902 | 192166 | 11.903 | |
| Perylene-d12 | 130104 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8270D

| Laboratory: | <u>ENCO Orlando</u> | SDG: | <u>A501753-CTOWE19</u> | | | | | |
|-------------|--------------------------------|----------------|--|----------------|-----------------------|-------------|-----------------|--|
| Client: | <u>CH2M Hill, Inc. (CH025)</u> | Project: | <u>CTO-WE19 Yorktown Site 25-SOILS</u> | | | | | |
| Matrix: | <u>Soil</u> | Laboratory ID: | <u>A501753-02</u> | File ID: | <u>2dq028.D</u> | | | |
| Sampled: | <u>04/08/15 09:25</u> | Prepared: | <u>04/15/15 08:30</u> | Analyzed: | <u>04/22/15 13:52</u> | | | |
| Solids: | <u>87.72</u> | Preparation: | <u>EPA 3550C_MS</u> | Initial/Final: | <u>15 g / 300 mL</u> | | | |
| Batch: | <u>5D15010</u> | Sequence: | <u>AA33541</u> | Calibration: | <u>1504079</u> | Instrument: | <u>OSVGCMs2</u> | |
| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
| 91-57-6 | 2-Methylnaphthalene | 1 | <31 | U | 21 | 31 | 40 | |
| 91-20-3 | Naphthalene | 1 | <31 | U | 21 | 31 | 40 | |
| 208-96-8 | Acenaphthylene | 1 | <31 | U | 21 | 31 | 40 | |
| 83-32-9 | Acenaphthene | 1 | <31 | U | 17 | 31 | 40 | |
| 86-73-7 | Fluorene | 1 | <31 | U | 19 | 31 | 40 | |
| 85-01-8 | Phenanthrene | 1 | <31 | U | 17 | 31 | 40 | |
| 120-12-7 | Anthracene | 1 | <31 | U | 16 | 31 | 40 | |
| 206-44-0 | Fluoranthene | 1 | <31 | U | 19 | 31 | 40 | |
| 129-00-0 | Pyrene | 1 | <31 | U | 18 | 31 | 40 | |
| 56-55-3 | Benzo(a)anthracene | 1 | <31 | U | 16 | 31 | 40 | |
| 218-01-9 | Chrysene | 1 | <31 | U | 14 | 31 | 40 | |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <31 | U | 19 | 31 | 40 | |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <31 | U | 22 | 31 | 40 | |
| 50-32-8 | Benzo(a)pyrene | 1 | <31 | U | 17 | 31 | 40 | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <31 | U | 17 | 31 | 40 | |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | <31 | U | 18 | 31 | 40 | |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <31 | U | 17 | 31 | 40 | |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| p-Terphenyl | 2280 | 2000 | 89 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|-------------------|--------|--------|----------|--------|---|
| Naphthalene-d8 | 175126 | 5.467 | 229213 | 5.468 | |
| Acenaphthene-d10 | 114030 | 7.266 | 125128 | 7.267 | |
| Phenanthrene-d10 | 186042 | 8.782 | 198421 | 8.783 | |
| Chrysene-d12 | 171515 | 11.907 | 192166 | 11.903 | |
| Perylene-d12 | 132560 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05 File ID: 2dq029.D

Sampled: 04/08/15 10:10 Prepared: 04/15/15 08:30 Analyzed: 04/22/15 14:14

Solids: 76.58 Preparation: EPA 3550C_MS Initial/Final: 15.4 g / 300 mL

Batch: 5D15010 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|----------|------------------------|----------|-------------------|---|----|-----|-----|
| 91-57-6 | 2-Methylnaphthalene | 1 | <35 | U | 24 | 35 | 46 |
| 91-20-3 | Naphthalene | 1 | <35 | U | 24 | 35 | 46 |
| 208-96-8 | Acenaphthylene | 1 | <35 | U | 24 | 35 | 46 |
| 83-32-9 | Acenaphthene | 1 | <35 | U | 20 | 35 | 46 |
| 86-73-7 | Fluorene | 1 | <35 | U | 22 | 35 | 46 |
| 85-01-8 | Phenanthrene | 1 | <35 | U | 20 | 35 | 46 |
| 120-12-7 | Anthracene | 1 | <35 | U | 18 | 35 | 46 |
| 206-44-0 | Fluoranthene | 1 | <35 | U | 22 | 35 | 46 |
| 129-00-0 | Pyrene | 1 | <35 | U | 21 | 35 | 46 |
| 56-55-3 | Benzo(a)anthracene | 1 | <35 | U | 18 | 35 | 46 |
| 218-01-9 | Chrysene | 1 | <35 | U | 16 | 35 | 46 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <35 | U | 22 | 35 | 46 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <35 | U | 25 | 35 | 46 |
| 50-32-8 | Benzo(a)pyrene | 1 | <35 | U | 20 | 35 | 46 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <35 | U | 20 | 35 | 46 |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | <35 | U | 21 | 35 | 46 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <35 | U | 20 | 35 | 46 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| p-Terphenyl | 2540 | 2200 | 87 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|-------------------|--------|--------|----------|--------|---|
| Naphthalene-d8 | 163101 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 109480 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 179719 | 8.781 | 198421 | 8.783 | |
| Chrysene-d12 | 165988 | 11.902 | 192166 | 11.903 | |
| Perylene-d12 | 127938 | 14.198 | 158591 | 14.197 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06 File ID: 2dq030.D

Sampled: 04/08/15 10:15 Prepared: 04/15/15 08:30 Analyzed: 04/22/15 14:35

Solids: 84.82 Preparation: EPA 3550C_MS Initial/Final: 15 g / 300 mL

Batch: 5D15010 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|----------|------------------------|----------|-------------------|---|----|-----|-----|
| 91-57-6 | 2-Methylnaphthalene | 1 | <32 | U | 21 | 32 | 41 |
| 91-20-3 | Naphthalene | 1 | <32 | U | 21 | 32 | 41 |
| 208-96-8 | Acenaphthylene | 1 | <32 | U | 21 | 32 | 41 |
| 83-32-9 | Acenaphthene | 1 | <32 | U | 18 | 32 | 41 |
| 86-73-7 | Fluorene | 1 | <32 | U | 20 | 32 | 41 |
| 85-01-8 | Phenanthrene | 1 | <32 | U | 18 | 32 | 41 |
| 120-12-7 | Anthracene | 1 | <32 | U | 17 | 32 | 41 |
| 206-44-0 | Fluoranthene | 1 | <32 | U | 20 | 32 | 41 |
| 129-00-0 | Pyrene | 1 | <32 | U | 19 | 32 | 41 |
| 56-55-3 | Benzo(a)anthracene | 1 | <32 | U | 17 | 32 | 41 |
| 218-01-9 | Chrysene | 1 | <32 | U | 14 | 32 | 41 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <32 | U | 20 | 32 | 41 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <32 | U | 22 | 32 | 41 |
| 50-32-8 | Benzo(a)pyrene | 1 | <32 | U | 18 | 32 | 41 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <32 | U | 18 | 32 | 41 |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | <32 | U | 19 | 32 | 41 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <32 | U | 18 | 32 | 41 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| p-Terphenyl | 2360 | 2200 | 93 | 50 - 150 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|-------------------|--------|--------|----------|--------|---|
| Naphthalene-d8 | 167294 | 5.466 | 229213 | 5.468 | |
| Acenaphthene-d10 | 109001 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 175578 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 161734 | 11.902 | 192166 | 11.903 | |
| Perylene-d12 | 124596 | 14.196 | 158591 | 14.197 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8270D

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14 File ID: 2dq008.D

Sampled: 04/08/15 13:45 Prepared: 04/15/15 06:30 Analyzed: 04/22/15 06:41

Solids: Preparation: EPA 3511_MS Initial/Final: 35 mL / 2 mL

Batch: SD15007 Sequence: AA33541 Calibration: 1504079 Instrument: OSVGCMS2

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|----------|------------------------|----------|--------------|---|-------|-------|------|
| 91-57-6 | 2-Methylnaphthalene | 1 | <0.090 | U | 0.044 | 0.090 | 0.10 |
| 91-20-3 | Naphthalene | 1 | <0.090 | U | 0.035 | 0.090 | 0.10 |
| 208-96-8 | Acenaphthylene | 1 | <0.090 | U | 0.036 | 0.090 | 0.10 |
| 83-32-9 | Acenaphthene | 1 | <0.090 | U | 0.037 | 0.090 | 0.10 |
| 86-73-7 | Fluorene | 1 | <0.090 | U | 0.038 | 0.090 | 0.10 |
| 85-01-8 | Phenanthrene | 1 | <0.090 | U | 0.039 | 0.090 | 0.10 |
| 120-12-7 | Anthracene | 1 | <0.090 | U | 0.036 | 0.090 | 0.10 |
| 206-44-0 | Fluoranthene | 1 | <0.090 | U | 0.051 | 0.090 | 0.10 |
| 129-00-0 | Pyrene | 1 | <0.090 | U | 0.048 | 0.090 | 0.10 |
| 56-55-3 | Benzo(a)anthracene | 1 | <0.090 | U | 0.037 | 0.090 | 0.10 |
| 218-01-9 | Chrysene | 1 | <0.090 | U | 0.051 | 0.090 | 0.10 |
| 205-99-2 | Benzo(b)fluoranthene | 1 | <0.090 | U | 0.059 | 0.090 | 0.10 |
| 207-08-9 | Benzo(k)fluoranthene | 1 | <0.090 | U | 0.046 | 0.090 | 0.10 |
| 50-32-8 | Benzo(a)pyrene | 1 | <0.090 | U | 0.043 | 0.090 | 0.10 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 1 | <0.090 | U | 0.037 | 0.090 | 0.10 |
| 53-70-3 | Dibenz(a,h)anthracene | 1 | <0.090 | U | 0.026 | 0.090 | 0.10 |
| 191-24-2 | Benzo(g,h,i)perylene | 1 | <0.090 | U | 0.040 | 0.090 | 0.10 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|----------------------------|--------------|-------------|-------|-----------|---|
| p-Terphenyl | 5.71 | 6.2 | 109 | 58 - 132 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|-------------------|--------|--------|----------|--------|---|
| Naphthalene-d8 | 157364 | 5.459 | 229213 | 5.468 | |
| Acenaphthene-d10 | 109641 | 7.267 | 125128 | 7.267 | |
| Phenanthrene-d10 | 180105 | 8.783 | 198421 | 8.783 | |
| Chrysene-d12 | 169960 | 11.903 | 192166 | 11.903 | |
| Perylene-d12 | 133002 | 14.197 | 158591 | 14.197 | |

* Values outside of QC limits

ANALYSIS DATA SHEET

YS25-EB040815

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Water</u> | Prepared: | <u>04/13/15 11:38</u> |
| Sampled: | <u>04/08/15 13:45</u> | Preparation: | <u>EXT_EXPL_W</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-01</u> | File ID: | <u>110V1001.D.Report.TXT</u> |
| Sequence: | <u>5D10505</u> | Analyzed: | <u>04/14/15 14:09</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (ug/L) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|--------------|-------------|-------|-----------|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0769 | 0.154 | 0.308 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0769 | 0.154 | 0.308 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0769 | 0.154 | 0.308 | U |
| 99-08-1 | 3-Nitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 2691-41-0 | HMX | | 0.0769 | 0.154 | 0.308 | U |
| 98-95-3 | Nitrobenzene | | 0.0769 | 0.154 | 0.308 | U |
| 78-11-5 | PETN | | 0.192 | 0.385 | 0.769 | U |
| 121-82-4 | RDX | | 0.0769 | 0.154 | 0.308 | U |
| 479-45-8 | Tetryl | | 0.0769 | 0.154 | 0.308 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 1.923 | 1.981 | 103 | 68 - 140 | |

| | | | | |
|----------------|----------------------|------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-01RE1</u> | Second Column Analysis | File ID: | <u>008V0801.D.Report.TXT</u> |
| Sequence: | <u>5D10607</u> | | Analyzed: | <u>04/14/15 16:49</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (ug/L) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|--------------|-------------|-------|-----------|---|
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0769 | 0.154 | 0.308 | U |
| 55-63-0 | Nitroglycerin | | 0.192 | 0.385 | 0.769 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 1.923 | 1.970 | 102 | 68 - 140 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SS01-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 09:15</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-02</u> | File ID: | <u>145V4501.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 10:20</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|-----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0397 | 0.0794 | Q/U |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 2691-41-0 | HMX | | 0.0198 | 0.0397 | 0.0794 | U |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 55-63-0 | Nitroglycerin | | 0.0496 | 0.0992 | 0.198 | U |
| 78-11-5 | PETN | | 0.0496 | 0.0992 | 0.198 | U |
| 121-82-4 | RDX | | 0.0198 | 0.0397 | 0.0794 | U |
| 479-45-8 | Tetryl | | 0.0198 | 0.0397 | 0.0794 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1984 | 0.1997 | 101 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

Laboratory: Empirical Laboratories, LLC SDG: 1504064
 Client: Environmental Conservation Laborato Project: Yorktown Site 25 CTO-WE19
 Matrix: Solid Prepared: 04/14/15 16:05 Dilution: 1
 Sampled: 04/08/15 09:25 Preparation: EXT_EXPL_S Batch: 5D13010
 Solids:
 Laboratory ID: 1504064-03 File ID: 146V4601.D.Report.TXT
 Sequence: 5D10705 Analyzed: 04/16/15 10:49
 Calibration: 5086002 Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------|-----------|--------|-----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0399 | 0.0798 | Q/U |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0399 | 0.0798 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 55-63-0 | Nitroglycerin | | 0.0499 | 0.0997 | 0.199 | U |
| 78-11-5 | PETN | | 0.0499 | 0.0997 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0399 | 0.0798 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0399 | 0.0798 | U |
| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q | |
| 1-Chloro-3-nitrobenzene | 0.1994 | 0.2042 | 102 | 84 - 127 | | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SS02-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 09:45</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-04</u> | File ID: | <u>147V4701.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 11:19</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|---|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0395 | 0.0791 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0395 | 0.0791 | Q |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0395 | 0.0791 | U |
| 2691-41-0 | HMX | | 0.0198 | 0.0395 | 0.0791 | U |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0395 | 0.0791 | U |
| 55-63-0 | Nitroglycerin | | 0.0494 | 0.0988 | 0.198 | U |
| 78-11-5 | PETN | | 0.0494 | 0.0988 | 0.198 | U |
| 479-45-8 | Tetryl | | 0.0198 | 0.0395 | 0.0791 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1976 | 0.1874 | 95 | 84 - 127 | |

| | | | | |
|----------------|----------------------|-------------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-04RE1</u> | Second Column Analysis | File ID: | <u>034V3501.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/17/15 22:56</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|---------------|--------------|--------|-----------|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0395 | 0.0791 | U |
| 121-82-4 | RDX | | 0.0198 | 0.0395 | 0.0791 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1976 | 0.2022 | 102 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 09:55</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-05</u> | File ID: | <u>148V4801.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 11:48</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0397 | 0.0794 | DU |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0397 | 0.0794 | U |
| 2691-41-0 | HMX | | 0.0198 | 0.0397 | 0.0794 | U |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0397 | 0.0794 | U |
| 55-63-0 | Nitroglycerin | | 0.0496 | 0.0992 | 0.198 | U |
| 78-11-5 | PETN | | 0.0496 | 0.0992 | 0.198 | U |
| 121-82-4 | RDX | | 0.0198 | 0.0397 | 0.0794 | U |
| 479-45-8 | Tetryl | | 0.0198 | 0.0397 | 0.0794 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1984 | 0.2057 | 104 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SS03-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 10:10</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-06</u> | File ID: | <u>149V4901.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 12:17</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0797 | RU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 2691-41-0 | HMX | | 0.0199 | 0.0398 | 0.0797 | U |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0996 | 0.199 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0996 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0797 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0797 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1992 | 0.1965 | 99 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 10:15</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-07</u> | File ID: | <u>150V5001.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 12:46</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|-----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0196 | 0.0393 | 0.0786 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0196 | 0.0393 | 0.0786 | Q/U |
| 99-08-1 | 3-Nitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0196 | 0.0393 | 0.0786 | U |
| 2691-41-0 | HMX | | 0.0196 | 0.0393 | 0.0786 | U |
| 98-95-3 | Nitrobenzene | | 0.0196 | 0.0393 | 0.0786 | U |
| 55-63-0 | Nitroglycerin | | 0.0491 | 0.0982 | 0.196 | U |
| 78-11-5 | PETN | | 0.0491 | 0.0982 | 0.196 | U |
| 479-45-8 | Tetryl | | 0.0196 | 0.0393 | 0.0786 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1965 | 0.1966 | 100 | 84 - 127 | |

| | | | | |
|----------------|----------------------|------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-07RE1</u> | Second Column Analysis | File ID: | <u>036V3701.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 01:02</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|---------------|--------------|--------|-----------|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0196 | 0.0393 | 0.0786 | U |
| 121-82-4 | RDX | | 0.0196 | 0.0393 | 0.0786 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1965 | 0.1970 | 100 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SS04-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 10:40</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-08</u> | File ID: | <u>151V5101.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 13:15</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|-----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0396 | 0.0793 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0396 | 0.0793 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0396 | 0.0793 | Q/U |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0396 | 0.0793 | U |
| 78-11-5 | PETN | | 0.0496 | 0.0991 | 0.198 | U |
| 121-82-4 | RDX | | 0.0198 | 0.0396 | 0.0793 | U |
| 479-45-8 | Tetryl | | 0.0198 | 0.0396 | 0.0793 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1982 | 0.2003 | 101 | 84 - 127 | |

| | | | | |
|----------------|----------------------|------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-08RE1</u> | Second Column Analysis | File ID: | <u>037V3801.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 02:05</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|---------------|---------------|--------------|--------|-----------|---|
| 2691-41-0 | HMX | | 0.0198 | 0.0396 | 0.0793 | U |
| 55-63-0 | Nitroglycerin | | 0.0496 | 0.0991 | 0.198 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1982 | 0.2074 | 105 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB04-0H02-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 10:45</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-09</u> | File ID: | <u>154V5401.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 14:43</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0795 | RU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| 2691-41-0 | HMX | 0.0416 | 0.0199 | 0.0398 | 0.0795 | J |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0795 | U |
| 55-63-0 | Nitroglycerin | | 0.0497 | 0.0994 | 0.199 | U |
| 78-11-5 | PETN | | 0.0497 | 0.0994 | 0.199 | U |
| 121-82-4 | RDX | | 0.0199 | 0.0398 | 0.0795 | U |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0795 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1988 | 0.2029 | 102 | 84 - 127 | |

| | | | | |
|----------------|----------------------|-------------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-09RE1</u> | Second Column Analysis | File ID: | <u>038V3901.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 03:08</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------|---------------|--------------|--------|-----------|---|
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0795 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1988 | 0.2002 | 101 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

TAH 7/7/15

ANALYSIS DATA SHEET

YS25-SS06-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 11:10</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-10</u> | File ID: | <u>155V5501.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 15:12</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|---------------|--------|-----------|--------|
| 99-35-4 | 1,3,5-Trinitrobenzene | UL-SSL | 0.0199 | 0.0399 | 0.0798 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0399 | 0.0798 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0399 | 0.0798 | QU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 2691-41-0 | HMX | L-SSL | 5.72 | 0.0199 | 0.0399 | 0.0798 |
| 98-95-3 | Nitrobenzene | UL-SSL | | 0.0199 | 0.0399 | 0.0798 |
| 78-11-5 | PETN | UL-SSL | | 0.0499 | 0.0997 | 0.199 |
| 121-82-4 | RDX | L-SSL | 0.0616 | 0.0199 | 0.0399 | 0.0798 |
| 479-45-8 | Tetryl | UL-SSL | | 0.0199 | 0.0399 | 0.0798 |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1994 | 0.1541 | 77 | 84 - 127 | * |

| | | | | |
|----------------|----------------------|------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-10RE1</u> | Second Column Analysis | File ID: | <u>039V4001.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 04:11</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------|---------------|--------------|--------|-----------|---|
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0399 | 0.0798 | U |
| 55-63-0 | Nitroglycerin | | 0.0499 | 0.0997 | 0.199 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1994 | 0.2197 | 110 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB06-0H02-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 11:15</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-11</u> | File ID: | <u>156V5601.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 15:41</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------------|--------|-----------|---------------|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0198 | 0.0396 | 0.0793 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0198 | 0.0396 | 0.0793 | OU |
| 99-08-1 | 3-Nitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 2691-41-0 | HMX K-SSH | 1.69 | 0.0198 | 0.0396 | 0.0793 | |
| 98-95-3 | Nitrobenzene | | 0.0198 | 0.0396 | 0.0793 | U |
| 55-63-0 | Nitroglycerin | | 0.0496 | 0.0991 | 0.198 | U |
| 78-11-5 | PETN | | 0.0496 | 0.0991 | 0.198 | U |
| 479-45-8 | Tetryl | | 0.0198 | 0.0396 | 0.0793 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1982 | 0.2593 | 131 | 84 - 127 | * |

| | | | | |
|----------------|----------------------|------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-11RE1</u> | Second Column Analysis | File ID: | <u>040V4101.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 05:14</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|---------------|--------------|--------|-----------|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0198 | 0.0396 | 0.0793 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0198 | 0.0396 | 0.0793 | U |
| 121-82-4 | RDX | | 0.0198 | 0.0396 | 0.0793 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1982 | 0.2050 | 103 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SS12-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 12:30</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-12</u> | File ID: | <u>157V5701.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 16:10</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|---------------|--------|-----------|------------|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0197 | 0.0393 | 0.0787 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0197 | 0.0393 | 0.0787 | DU |
| 99-08-1 | 3-Nitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0197 | 0.0393 | 0.0787 | U |
| 2691-41-0 | HMX | 8.02 | 0.0197 | 0.0393 | 0.0787 | |
| 98-95-3 | Nitrobenzene | | 0.0197 | 0.0393 | 0.0787 | U |
| 78-11-5 | PETN | | 0.0492 | 0.0983 | 0.197 | U |
| 121-82-4 | RDX | J-FD | 0.0448 | 0.0197 | 0.0393 | -J- |
| 479-45-8 | Tetryl | | 0.0197 | 0.0393 | 0.0787 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1967 | 0.2003 | 102 | 84 - 127 | |

| | | | | |
|----------------|----------------------|-------------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-12RE1</u> | Second Column Analysis | File ID: | <u>041V4201.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 06:17</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|---------------|--------------|--------|-----------|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0197 | 0.0393 | 0.0787 | U |
| 55-63-0 | Nitroglycerin | | 0.0492 | 0.0983 | 0.197 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1967 | 0.1908 | 97 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 12:40</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-13</u> | File ID: | <u>158V5801.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 16:40</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|---|---|--------------|--------|-----------|--|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0797 | Q/U |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0797 | U |
| 2691-41-0 | HMX J-FD | 2.34 | 0.0199 | 0.0398 | 0.0797 | _____ |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0797 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0996 | 0.199 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0996 | 0.199 | U |
| 121-82-4 | RDX J-2C | 0.0486 | 0.0199 | 0.0398 | 0.0797 | J-P |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0797 | U |
| SYSTEM MONITORING COMPOUND | | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
| 1-Chloro-3-nitrobenzene | | 0.1992 | 0.1976 | 99 | 84 - 127 | |

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|----------------|----------------------|-------------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-13RE1</u> | Second Column Analysis | File ID: | <u>042V4301.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 07:19</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q |
|----------------------------|---------------|--------------|-------|-----------|---|
| 1-Chloro-3-nitrobenzene | 0.1992 | 0.2014 | 101 | 84 - 127 | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SS12P-0415

| | | | |
|----------------|--|--------------|----------------------------------|
| Laboratory: | <u>Empirical Laboratories, LLC</u> | SDG: | <u>1504064</u> |
| Client: | <u>Environmental Conservation Laborato</u> | Project: | <u>Yorktown Site 25 CTO-WE19</u> |
| Matrix: | <u>Solid</u> | Prepared: | <u>04/14/15 16:05</u> |
| Sampled: | <u>04/08/15 12:35</u> | Preparation: | <u>EXT_EXPL_S</u> |
| Solids: | | Dilution: | <u>1</u> |
| Laboratory ID: | <u>1504064-14</u> | File ID: | <u>159V5901.D.Report.TXT</u> |
| Sequence: | <u>5D10705</u> | Analyzed: | <u>04/16/15 17:09</u> |
| Calibration: | <u>5086002</u> | Instrument: | <u>HPLC1-[C1]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|----------------------------|---------------|--------|-----------|--------|----|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0196 | 0.0392 | 0.0784 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0196 | 0.0392 | 0.0784 | DU |
| 99-08-1 | 3-Nitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0196 | 0.0392 | 0.0784 | U |
| 2691-41-0 | HMX | 5.78 | 0.0196 | 0.0392 | 0.0784 | |
| 98-95-3 | Nitrobenzene | | 0.0196 | 0.0392 | 0.0784 | U |
| 55-63-0 | Nitroglycerin | | 0.0490 | 0.0979 | 0.196 | U |
| 78-11-5 | PETN | | 0.0490 | 0.0979 | 0.196 | U |
| 479-45-8 | Tetryl | | 0.0196 | 0.0392 | 0.0784 | U |
| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q | |
| 1-Chloro-3-nitrobenzene | 0.1959 | 0.1943 | 99 | 84 - 127 | | |

| | | | | |
|----------------|----------------------|-------------------------------|-------------|------------------------------|
| Laboratory ID: | <u>1504064-14RE1</u> | Second Column Analysis | File ID: | <u>043V4401.D.Report.TXT</u> |
| Sequence: | <u>5D11101</u> | | Analyzed: | <u>04/18/15 08:22</u> |
| Calibration: | <u>5096002</u> | | Instrument: | <u>HPLC2-[C2]</u> |

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|---------------|--------|-----------|--------|----|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0196 | 0.0392 | 0.0784 | U |
| 121-82-4 | RDX | UJ-FD | 0.0196 | 0.0392 | 0.0784 | DU |
| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q | |
| 1-Chloro-3-nitrobenzene | 0.1959 | 0.1945 | 99 | 84 - 127 | | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

Laboratory: Empirical Laboratories, LLC SDG: 1504064
 Client: Environmental Conservation Laborato Project: Yorktown Site 25 CTO-WE19
 Matrix: Solid Prepared: 04/14/15 16:05 Dilution: 1
 Sampled: 04/08/15 12:45 Preparation: EXT_EXPL_S Batch: 5D13010
 Solids:
 Laboratory ID: 1504064-15 File ID: 160V6001.D.Report.TXT
 Sequence: 5D10705 Analyzed: 04/16/15 17:38
 Calibration: 5086002 Instrument: HPLC1-[C1]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|---|---|--------|-----------|--------|--|
| 99-35-4 | 1,3,5-Trinitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 118-96-7 | 2,4,6-Trinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 121-14-2 | 2,4-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 606-20-2 | 2,6-Dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 35572-78-2 | 2-Amino-4,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 88-72-2 | 2-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 618-87-1 | 3,5-Dinitroaniline | | 0.0199 | 0.0398 | 0.0796 | DU |
| 99-08-1 | 3-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 19406-51-0 | 4-Amino-2,6-dinitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 99-99-0 | 4-Nitrotoluene | | 0.0199 | 0.0398 | 0.0796 | U |
| 2691-41-0 | HMX J-FD | 1.60 | 0.0199 | 0.0398 | 0.0796 | _____ |
| 98-95-3 | Nitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| 55-63-0 | Nitroglycerin | | 0.0498 | 0.0995 | 0.199 | U |
| 78-11-5 | PETN | | 0.0498 | 0.0995 | 0.199 | U |
| 121-82-4 | RDX J-2C | 0.0494 | 0.0199 | 0.0398 | 0.0796 | JP |
| 479-45-8 | Tetryl | | 0.0199 | 0.0398 | 0.0796 | U |
| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q | |
| 1-Chloro-3-nitrobenzene | 0.1990 | 0.1997 | 100 | 84 - 127 | | |

Laboratory ID: 1504064-15RE1 Second Column Analysis File ID: 044V4501.D.Report.TXT
 Sequence: 5D11101 Analyzed: 04/18/15 09:25
 Calibration: 5096002 Instrument: HPLC2-[C2]

| CAS NO. | COMPOUND | CONC. (mg/Kg) | DL | LOD | LOQ | Q |
|----------------------------|--------------------|---------------|--------|-----------|--------|---|
| 99-65-0 | 1,3-Dinitrobenzene | | 0.0199 | 0.0398 | 0.0796 | U |
| SYSTEM MONITORING COMPOUND | ADDED (mg/Kg) | CONC (mg/Kg) | % REC | QC LIMITS | Q | |
| 1-Chloro-3-nitrobenzene | 0.1990 | 0.1993 | 100 | 84 - 127 | | |

Explosive sample dual column analysis do not conform to normal dual column analysis, such as Pesticides, due to the fact that separate instrument systems are used for each column. When dual column analyses are required, each injection has a different date/time/instrument reference. Lab ID's appended with RE# indicate subsequent analysis for the original sample. If analytes are previously confirmed on both columns, sample dilutions may not have a confirmatory analytical run.

Total Target Analytes Reported: 17 Project Analytes: 17

INORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-01File ID: 5D16005-1Sampled: 04/08/15 09:15Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 82.68Preparation: NO PREPInitial/Final: 4.95 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <350 | 1 | U | 120 | 350 | 440 | EPA 9014 |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-02File ID: 5D16005-1Sampled: 04/08/15 09:25Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 87.72Preparation: NO PREPInitial/Final: 5.02 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SS02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-03File ID: 5D16005-1Sampled: 04/08/15 09:45Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 80.29Preparation: NO PREPInitial/Final: 5 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | 130 | 1 | J | 120 | 360 | 450 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-04File ID: 5D16005-1Sampled: 04/08/15 09:55Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 88.62Preparation: NO PREPInitial/Final: 4.95 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-05File ID: 5D16005-1Sampled: 04/08/15 10:10Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 76.58Preparation: NO PREPInitial/Final: 4.99 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | 290 | 1 | J | 130 | 380 | 470 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-06File ID: 5D16005-1Sampled: 04/08/15 10:15Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 84.82Preparation: NO PREPInitial/Final: 4.96 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <340 | 1 | U | 110 | 340 | 420 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SS04-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-07File ID: 5D16005-1Sampled: 04/08/15 10:40Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 88.87Preparation: NO PREPInitial/Final: 4.96 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <330 | 1 | U | 110 | 330 | 410 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SB04-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-08File ID: 5D16005-1Sampled: 04/08/15 10:45Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 89.59Preparation: NO PREPInitial/Final: 4.97 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <320 | 1 | U | 110 | 320 | 400 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SS06-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-09File ID: 5D16005-1Sampled: 04/08/15 11:10Prepared: 04/16/15 08:39Analyzed: 04/17/15 13:35Solids: 92.29Preparation: NO PREPInitial/Final: 5.01 g / 50 mLBatch: 5D16005Sequence: AA33603Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <310 | 1 | U | 110 | 310 | 390 | EPA 9014 |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB06-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-10File ID: 5D15020-1Sampled: 04/08/15 11:15Prepared: 04/15/15 12:00Analyzed: 04/17/15 10:28Solids: 89.32Preparation: NO PREPInitial/Final: 5.02 g / 50 mLBatch: 5D15020Sequence: AA33602Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <320 | 1 | U | 110 | 320 | 400 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SS12-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-12File ID: 5D15020-1Sampled: 04/08/15 12:30Prepared: 04/15/15 12:00Analyzed: 04/17/15 10:28Solids: 84.81Preparation: NO PREPInitial/Final: 5.02 g / 50 mLBatch: 5D15020Sequence: AA33602Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <340 | 1 | U | 110 | 340 | 420 | EPA 9014 |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-13File ID: 5D15020-1Sampled: 04/08/15 12:40Prepared: 04/15/15 12:00Analyzed: 04/17/15 10:28Solids: 81.94Preparation: NO PREPInitial/Final: 4.96 g / 50 mLBatch: 5D15020Sequence: AA33602Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <350 | 1 | U | 120 | 350 | 440 | EPA 9014 |

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INORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: WaterLaboratory ID: A501753-14File ID: 5D17027-1Sampled: 04/08/15 13:45Prepared: 04/17/15 11:40Analyzed: 04/17/15 15:24Solids: 0.00Preparation: NO PREPInitial/Final: 50 mL / 50 mLBatch: 5D17027Sequence: AA33640Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/L) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|----------------------|-----------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <16 | 1 | U | 5.3 | 16 | 26 | EPA 9014 |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-15File ID: 5D15020-1Sampled: 04/08/15 12:45Prepared: 04/15/15 12:00Analyzed: 04/17/15 10:28Solids: 82.74Preparation: NO PREPInitial/Final: 4.98 g / 50 mLBatch: 5D15020Sequence: AA33602Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <350 | 1 | U | 120 | 350 | 440 | EPA 9014 |

INORGANIC ANALYSIS DATA SHEET

YS25-SS12P-0415

EPA 9014Laboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-16File ID: 5D15020-1Sampled: 04/08/15 12:35Prepared: 04/15/15 12:00Analyzed: 04/17/15 10:28Solids: 82.46Preparation: NO PREPInitial/Final: 4.96 g / 50 mLBatch: 5D15020Sequence: AA33602Calibration: 1504071Instrument: OWETSSPEC2

| CAS NO. | Analyte | Concentration (ug/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|---------|-----------------|------------------------------|--------------------|---|-----|-----|-----|----------|
| 57-12-5 | Cyanide (total) | <350 | 1 | U | 120 | 350 | 440 | EPA 9014 |

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INORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 7470ALaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: WaterLaboratory ID: A501753-14File ID: Hg 5D15022 0019 w-019Sampled: 04/08/15 13:45Prepared: 04/15/15 10:14Analyzed: 04/16/15 07:20Solids: 0.00Preparation: EPA 7470AInitial/Final: 30 mL / 30 mLBatch: 5D15022Sequence: AA33454Calibration: 1504065Instrument: OMHG1

| CAS NO. | Analyte | Concentration (ug/L) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|----------------------|-----------------|---|--------|--------|-------|-----------|
| 7439-97-6 | Mercury | <0.0690 | 1 | U | 0.0230 | 0.0690 | 0.200 | EPA 7470A |

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INORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-01File ID: Hg 5D16012 013 s-016Sampled: 04/08/15 09:15Prepared: 04/16/15 13:15Analyzed: 04/17/15 05:39Solids: 82.68Preparation: EPA 7471BInitial/Final: 0.33 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0225 | 1 | J | 0.00429 | 0.0129 | 0.0231 | EPA 7471B |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-02File ID: Hg 5D16012 013 s-018Sampled: 04/08/15 09:25Prepared: 04/16/15 13:15Analyzed: 04/17/15 05:46Solids: 87.72Preparation: EPA 7471BInitial/Final: 0.34 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0239 | 1 | | 0.00392 | 0.0118 | 0.0211 | EPA 7471B |

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INORGANIC ANALYSIS DATA SHEET

YS25-SS02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-03File ID: Hg 5D16012 013 s-019Sampled: 04/08/15 09:45Prepared: 04/16/15 13:15Analyzed: 04/17/15 05:49Solids: 80.29Preparation: EPA 7471BInitial/Final: 0.32 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0351 | 1 | | 0.00486 | 0.0146 | 0.0262 | EPA 7471B |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-04File ID: Hg 5D16012 013 s-020Sampled: 04/08/15 09:55Prepared: 04/16/15 13:15Analyzed: 04/17/15 05:53Solids: 88.62Preparation: EPA 7471BInitial/Final: 0.31 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0210 | 1 | J | 0.00440 | 0.0132 | 0.0237 | EPA 7471B |

INORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-05File ID: Hg 5D16012 013 s-021Sampled: 04/08/15 10:10Prepared: 04/16/15 13:15Analyzed: 04/17/15 05:56Solids: 76.58Preparation: EPA 7471BInitial/Final: 0.35 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0214 | 1 | J | 0.00437 | 0.0131 | 0.0235 | EPA 7471B |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-06File ID: Hg 5D16012 013 s-025Sampled: 04/08/15 10:15Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:09Solids: 84.82Preparation: EPA 7471BInitial/Final: 0.3 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0248 | 1 | | 0.00460 | 0.0138 | 0.0248 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET

YS25-SS04-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-07File ID: Hg 5D16012 013 s-026Sampled: 04/08/15 10:40Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:12Solids: 88.87Preparation: EPA 7471BInitial/Final: 0.34 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0237 | 1 | | 0.00387 | 0.0116 | 0.0209 | EPA 7471B |

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INORGANIC ANALYSIS DATA SHEET

YS25-SB04-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-08File ID: Hg 5D16012 013 s-027Sampled: 04/08/15 10:45Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:16Solids: 89.59Preparation: EPA 7471BInitial/Final: 0.32 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0141 | 1 | J | 0.00435 | 0.0131 | 0.0234 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET

YS25-SS06-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-09File ID: Hg 5D16012 013 s-028Sampled: 04/08/15 11:10Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:19Solids: 92.29Preparation: EPA 7471BInitial/Final: 0.31 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0772 | 1 | | 0.00423 | 0.0127 | 0.0228 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET

YS25-SB06-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-10File ID: Hg 5D16012 013 s-030Sampled: 04/08/15 11:15Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:26Solids: 89.32Preparation: EPA 7471BInitial/Final: 0.29 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0345 | 1 | | 0.00437 | 0.0131 | 0.0235 | EPA 7471B |

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INORGANIC ANALYSIS DATA SHEET

YS25-SS12-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-12File ID: Hg 5D16012 013 s-031Sampled: 04/08/15 12:30Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:29Solids: 84.81Preparation: EPA 7471BInitial/Final: 0.32 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0307 | 1 | | 0.00460 | 0.0138 | 0.0248 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-13File ID: Hg 5D16012 013 s-032Sampled: 04/08/15 12:40Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:32Solids: 81.94Preparation: EPA 7471BInitial/Final: 0.31 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0337 | 1 | | 0.00476 | 0.0143 | 0.0256 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-15File ID: Hg 5D16012 013 s-033Sampled: 04/08/15 12:45Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:36Solids: 82.74Preparation: EPA 7471BInitial/Final: 0.3 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0362 | 1 | | 0.00471 | 0.0141 | 0.0254 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET

YS25-SS12P-0415

EPA 7471BLaboratory: ENCO OrlandoSDG: A501753-CTOWE19Client: CH2M Hill, Inc. (CH025)Project: CTO-WE19 Yorktown Site 25-SOILSMatrix: SoilLaboratory ID: A501753-16File ID: Hg 5D16012 013 s-037Sampled: 04/08/15 12:35Prepared: 04/16/15 13:15Analyzed: 04/17/15 06:49Solids: 82.46Preparation: EPA 7471BInitial/Final: 0.32 g / 36 mLBatch: 5D16012Sequence: AA33478Calibration: 1504070Instrument: OMHG1

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|---------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7439-97-6 | Mercury | 0.0344 | 1 | | 0.00473 | 0.0142 | 0.0255 | EPA 7471B |

KW071215

INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-01 (YS25-SS01-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-01

File ID: 042015a-050

Sampled: 04/08/15 09:15

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:07

Solids: 82.68

Preparation: EPA 3050B

Initial/Final: 0.88 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|---|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 4130 | 1 | | 1.79 | 13.7 | 27.5 | EPA 6010C |
| 7440-36-0 | Antimony | <1.37 | 1 | U | 0.275 | 1.37 | 2.75 | EPA 6010C |
| 7440-38-2 | Arsenic | 1.85 | 1 | J | 0.591 | 1.37 | 2.75 | EPA 6010C |
| 7440-39-3 | Barium | 29.7 | 1 | | 0.0275 | 0.344 | 0.687 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.356 | 1 | | 0.0107 | 0.0344 | 0.0687 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.137 | 1 | U | 0.00880 | 0.137 | 0.275 | EPA 6010C |
| 7440-70-2 | Calcium | 1120 | 1 | | 2.61 | 17.2 | 34.4 | EPA 6010C |
| 7440-47-3 | Chromium | 5.74 | 1 | | 0.0302 | 0.344 | 0.687 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.76 | 1 | | 0.0577 | 0.687 | 2.75 | EPA 6010C |
| 7440-50-8 | Copper | 4.94 | 1 | | 0.151 | 0.344 | 0.687 | EPA 6010C |
| 7439-89-6 | Iron | 6610 | 1 | | 0.412 | 3.44 | 6.87 | EPA 6010C |
| 7439-92-1 | Lead | 8.11 | 1 | | 0.165 | 1.37 | 2.75 | EPA 6010C |
| 7439-95-4 | Magnesium | 442 | 1 | | 1.65 | 17.2 | 34.4 | EPA 6010C |
| 7439-96-5 | Manganese | 186 | 1 | | 0.0102 | 0.687 | 1.37 | EPA 6010C |
| 7440-02-0 | Nickel | 3.41 | 1 | | 0.0564 | 0.344 | 0.687 | EPA 6010C |
| 7440-09-7 | Potassium | 369 | 1 | | 5.22 | 34.4 | 68.7 | EPA 6010C |
| 7782-49-2 | Selenium | <1.37 | 1 | U | 0.220 | 1.37 | 2.75 | EPA 6010C |
| 7440-22-4 | Silver | <0.344 | 1 | U | 0.0673 | 0.344 | 0.687 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 40.4 | 1 | | 3.30 | 17.2 | 34.4 | EPA 6010C |
| 7440-28-0 | Thallium | 0.558 | 1 | J | 0.399 | 2.75 | 5.50 | EPA 6010C |
| 7440-62-2 | Vanadium | 10.5 | 1 | | 0.0577 | 0.687 | 1.37 | EPA 6010C |
| 7440-66-6 | Zinc | 60.8 | 1 | | 0.646 | 1.37 | 2.75 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-02 (YS25-SB01-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-02

File ID: 042015a-051

Sampled: 04/08/15 09:25

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:09

Solids: 87.72

Preparation: EPA 3050B

Initial/Final: 0.69 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|----------------|--------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 3880 | 1 | | 2.15 | 16.5 | 33.0 | EPA 6010C |
| 7440-36-0 | Antimony | <1.65 | 1 | U | 0.330 | 1.65 | 3.30 | EPA 6010C |
| 7440-38-2 | Arsenic | 1.26 | 1 | J | 0.710 | 1.65 | 3.30 | EPA 6010C |
| 7440-39-3 | Barium | 35.4 | 1 | | 0.0330 | 0.413 | 0.826 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.376 | 1 | | 0.0129 | 0.0413 | 0.0826 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.165 | 1 | U | 0.0106 | 0.165 | 0.330 | EPA 6010C |
| 7440-70-2 | Calcium | 567 | 1 | | 3.14 | 20.7 | 41.3 | EPA 6010C |
| 7440-47-3 | Chromium | 5.16 | 1 | | 0.0363 | 0.413 | 0.826 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.30 | 1 | | 0.0694 | 0.826 | 3.30 | EPA 6010C |
| 7440-50-8 | Copper | 1.84 | 1 | | 0.182 | 0.413 | 0.826 | EPA 6010C |
| 7439-89-6 | Iron | 6040 | 1 | | 0.496 | 4.13 | 8.26 | EPA 6010C |
| 7439-92-1 | Lead | 3.72 | 1 | | 0.198 | 1.65 | 3.30 | EPA 6010C |
| 7439-95-4 | Magnesium | 466 | 1 | | 1.98 | 20.7 | 41.3 | EPA 6010C |
| 7439-96-5 | Manganese | 177 | 1 | | 0.0122 | 0.826 | 1.65 | EPA 6010C |
| 7440-02-0 | Nickel | 3.15 | 1 | | 0.0677 | 0.413 | 0.826 | EPA 6010C |
| 7440-09-7 | Potassium | 289 | 1 | | 6.28 | 41.3 | 82.6 | EPA 6010C |
| 7782-49-2 | Selenium | <1.65 | 1 | U | 0.264 | 1.65 | 3.30 | EPA 6010C |
| 7440-22-4 | Silver | <0.413 | 1 | U | 0.0810 | 0.413 | 0.826 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 22.5 | 1 | -J- | 3.97 | 20.7 | 41.3 | EPA 6010C |
| 7440-28-0 | Thallium | <3.30 | 1 | U | 0.479 | 3.30 | 6.61 | EPA 6010C |
| 7440-62-2 | Vanadium | 8.05 | 1 | | 0.0694 | 0.826 | 1.65 | EPA 6010C |
| 7440-66-6 | Zinc | 13.2 | 1 | | 0.777 | 1.65 | 3.30 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-03 (YS25-SS02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-03

File ID: 042015a-052

Sampled: 04/08/15 09:45

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:11

Solids: 80.29

Preparation: EPA 3050B

Initial/Final: 0.83 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|----------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 4800 | 1 | | 1.95 | 15.0 | 30.0 | EPA 6010C |
| 7440-36-0 | Antimony | <1.50 | 1 | U | 0.300 | 1.50 | 3.00 | EPA 6010C |
| 7440-38-2 | Arsenic | 2.33 | 1 | J | 0.645 | 1.50 | 3.00 | EPA 6010C |
| 7440-39-3 | Barium | 29.4 | 1 | | 0.0300 | 0.375 | 0.750 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.304 | 1 | | 0.0117 | 0.0375 | 0.0750 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.150 | 1 | U | 0.00960 | 0.150 | 0.300 | EPA 6010C |
| 7440-70-2 | Calcium | 1180 | 1 | | 2.85 | 18.8 | 37.5 | EPA 6010C |
| 7440-47-3 | Chromium | 7.73 | 1 | | 0.0330 | 0.375 | 0.750 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.23 | 1 | J | 0.0630 | 0.750 | 3.00 | EPA 6010C |
| 7440-50-8 | Copper | 2.89 | 1 | | 0.165 | 0.375 | 0.750 | EPA 6010C |
| 7439-89-6 | Iron | 8810 | 1 | | 0.450 | 3.75 | 7.50 | EPA 6010C |
| 7439-92-1 | Lead | 8.54 | 1 | | 0.180 | 1.50 | 3.00 | EPA 6010C |
| 7439-95-4 | Magnesium | 419 | 1 | | 1.80 | 18.8 | 37.5 | EPA 6010C |
| 7439-96-5 | Manganese | 82.4 | 1 | | 0.0111 | 0.750 | 1.50 | EPA 6010C |
| 7440-02-0 | Nickel | 3.17 | 1 | | 0.0615 | 0.375 | 0.750 | EPA 6010C |
| 7440-09-7 | Potassium | 425 | 1 | | 5.70 | 37.5 | 75.0 | EPA 6010C |
| 7782-49-2 | Selenium | <1.50 | 1 | U | 0.240 | 1.50 | 3.00 | EPA 6010C |
| 7440-22-4 | Silver | <0.375 | 1 | U | 0.0735 | 0.375 | 0.750 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 15.1 | 1 | -J- | 3.60 | 18.8 | 37.5 | EPA 6010C |
| 7440-28-0 | Thallium | <3.00 | 1 | U | 0.435 | 3.00 | 6.00 | EPA 6010C |
| 7440-62-2 | Vanadium | 14.2 | 1 | | 0.0630 | 0.750 | 1.50 | EPA 6010C |
| 7440-66-6 | Zinc | 21.6 | 1 | | 0.705 | 1.50 | 3.00 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-04 (YS25-SB02-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-04

File ID: 042015a-053

Sampled: 04/08/15 09:55

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:13

Solids: 88.62

Preparation: EPA 3050B

Initial/Final: 0.78 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|--------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 7660 | 1 | | 1.88 | 14.5 | 28.9 | EPA 6010C |
| 7440-36-0 | Antimony | <1.45 | 1 | U | 0.289 | 1.45 | 2.89 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.95 | 1 | | 0.622 | 1.45 | 2.89 | EPA 6010C |
| 7440-39-3 | Barium | 44.4 | 1 | | 0.0289 | 0.362 | 0.723 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.638 | 1 | | 0.0113 | 0.0362 | 0.0723 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.145 | 1 | U | 0.00926 | 0.145 | 0.289 | EPA 6010C |
| 7440-70-2 | Calcium | 1240 | 1 | | 2.75 | 18.1 | 36.2 | EPA 6010C |
| 7440-47-3 | Chromium | 12.7 | 1 | | 0.0318 | 0.362 | 0.723 | EPA 6010C |
| 7440-48-4 | Cobalt | 6.09 | 1 | | 0.0608 | 0.723 | 2.89 | EPA 6010C |
| 7440-50-8 | Copper | 3.39 | 1 | | 0.159 | 0.362 | 0.723 | EPA 6010C |
| 7439-89-6 | Iron | 14700 | 1 | | 0.434 | 3.62 | 7.23 | EPA 6010C |
| 7439-92-1 | Lead | 7.75 | 1 | | 0.174 | 1.45 | 2.89 | EPA 6010C |
| 7439-95-4 | Magnesium | 741 | 1 | | 1.74 | 18.1 | 36.2 | EPA 6010C |
| 7439-96-5 | Manganese | 140 | 1 | | 0.0107 | 0.723 | 1.45 | EPA 6010C |
| 7440-02-0 | Nickel | 6.76 | 1 | | 0.0593 | 0.362 | 0.723 | EPA 6010C |
| 7440-09-7 | Potassium | 607 | 1 | | 5.50 | 36.2 | 72.3 | EPA 6010C |
| 7782-49-2 | Selenium | <1.45 | 1 | U | 0.231 | 1.45 | 2.89 | EPA 6010C |
| 7440-22-4 | Silver | <0.362 | 1 | U | 0.0709 | 0.362 | 0.723 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 19.3 | 1 | J | 3.47 | 18.1 | 36.2 | EPA 6010C |
| 7440-28-0 | Thallium | 0.640 | 1 | J | 0.420 | 2.89 | 5.79 | EPA 6010C |
| 7440-62-2 | Vanadium | 20.7 | 1 | | 0.0608 | 0.723 | 1.45 | EPA 6010C |
| 7440-66-6 | Zinc | 25.0 | 1 | | 0.680 | 1.45 | 2.89 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-05 (YS25-SS03-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-05

File ID: 042015a-054

Sampled: 04/08/15 10:10

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:15

Solids: 76.58

Preparation: EPA 3050B

Initial/Final: 0.63 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|--------------|--------|--------|-------|-----------|
| 7429-90-5 | Aluminum | 6600 | 1 | | 2.69 | 20.7 | 41.5 | EPA 6010C |
| 7440-36-0 | Antimony | <2.07 | 1 | U | 0.415 | 2.07 | 4.15 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.03 | 1 | J | 0.891 | 2.07 | 4.15 | EPA 6010C |
| 7440-39-3 | Barium | 36.4 | 1 | | 0.0415 | 0.518 | 1.04 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.489 | 1 | | 0.0162 | 0.0518 | 0.104 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.207 | 1 | U | 0.0133 | 0.207 | 0.415 | EPA 6010C |
| 7440-70-2 | Calcium | 1080 | 1 | | 3.94 | 25.9 | 51.8 | EPA 6010C |
| 7440-47-3 | Chromium | 10.1 | 1 | | 0.0456 | 0.518 | 1.04 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.89 | 1 | J | 0.0871 | 1.04 | 4.15 | EPA 6010C |
| 7440-50-8 | Copper | 3.96 | 1 | | 0.228 | 0.518 | 1.04 | EPA 6010C |
| 7439-89-6 | Iron | 10600 | 1 | | 0.622 | 5.18 | 10.4 | EPA 6010C |
| 7439-92-1 | Lead | 10.9 | 1 | | 0.249 | 2.07 | 4.15 | EPA 6010C |
| 7439-95-4 | Magnesium | 567 | 1 | | 2.49 | 25.9 | 51.8 | EPA 6010C |
| 7439-96-5 | Manganese | 72.6 | 1 | | 0.0153 | 1.04 | 2.07 | EPA 6010C |
| 7440-02-0 | Nickel | 4.64 | 1 | | 0.0850 | 0.518 | 1.04 | EPA 6010C |
| 7440-09-7 | Potassium | 555 | 1 | | 7.88 | 51.8 | 104 | EPA 6010C |
| 7782-49-2 | Selenium | <2.07 | 1 | U | 0.332 | 2.07 | 4.15 | EPA 6010C |
| 7440-22-4 | Silver | <0.518 | 1 | U | 0.102 | 0.518 | 1.04 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 28.3 | 1 | --J-- | 4.97 | 25.9 | 51.8 | EPA 6010C |
| 7440-28-0 | Thallium | <4.15 | 1 | U | 0.601 | 4.15 | 8.29 | EPA 6010C |
| 7440-62-2 | Vanadium | 17.7 | 1 | | 0.0871 | 1.04 | 2.07 | EPA 6010C |
| 7440-66-6 | Zinc | 48.0 | 1 | | 0.974 | 2.07 | 4.15 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-06 (YS25-SB03-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-06

File ID: 042015a-055

Sampled: 04/08/15 10:15

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:17

Solids: 84.82

Preparation: EPA 3050B

Initial/Final: 0.68 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|--------------|--------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 8050 | 1 | | 2.25 | 17.3 | 34.7 | EPA 6010C |
| 7440-36-0 | Antimony | <1.73 | 1 | U | 0.347 | 1.73 | 3.47 | EPA 6010C |
| 7440-38-2 | Arsenic | 5.59 | 1 | | 0.746 | 1.73 | 3.47 | EPA 6010C |
| 7440-39-3 | Barium | 30.5 | 1 | | 0.0347 | 0.433 | 0.867 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.758 | 1 | | 0.0135 | 0.0433 | 0.0867 | EPA 6010C |
| 7440-43-9 | Cadmium | <0.173 | 1 | U | 0.0111 | 0.173 | 0.347 | EPA 6010C |
| 7440-70-2 | Calcium | 1390 | 1 | | 3.29 | 21.7 | 43.3 | EPA 6010C |
| 7440-47-3 | Chromium | 18.5 | 1 | | 0.0381 | 0.433 | 0.867 | EPA 6010C |
| 7440-48-4 | Cobalt | 6.18 | 1 | | 0.0728 | 0.867 | 3.47 | EPA 6010C |
| 7440-50-8 | Copper | 3.95 | 1 | | 0.191 | 0.433 | 0.867 | EPA 6010C |
| 7439-89-6 | Iron | 20900 | 1 | | 0.520 | 4.33 | 8.67 | EPA 6010C |
| 7439-92-1 | Lead | 9.21 | 1 | | 0.208 | 1.73 | 3.47 | EPA 6010C |
| 7439-95-4 | Magnesium | 804 | 1 | | 2.08 | 21.7 | 43.3 | EPA 6010C |
| 7439-96-5 | Manganese | 184 | 1 | | 0.0128 | 0.867 | 1.73 | EPA 6010C |
| 7440-02-0 | Nickel | 7.83 | 1 | | 0.0711 | 0.433 | 0.867 | EPA 6010C |
| 7440-09-7 | Potassium | 969 | 1 | | 6.59 | 43.3 | 86.7 | EPA 6010C |
| 7782-49-2 | Selenium | <1.73 | 1 | U | 0.277 | 1.73 | 3.47 | EPA 6010C |
| 7440-22-4 | Silver | <0.433 | 1 | U | 0.0850 | 0.433 | 0.867 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 22.4 | 1 | J | 4.16 | 21.7 | 43.3 | EPA 6010C |
| 7440-28-0 | Thallium | 0.738 | 1 | J | 0.503 | 3.47 | 6.94 | EPA 6010C |
| 7440-62-2 | Vanadium | 28.3 | 1 | | 0.0728 | 0.867 | 1.73 | EPA 6010C |
| 7440-66-6 | Zinc | 30.4 | 1 | | 0.815 | 1.73 | 3.47 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-07 (YS25-SS04-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-07

File ID: 042015a-056

Sampled: 04/08/15 10:40

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:19

Solids: 88.87

Preparation: EPA 3050B

Initial/Final: 0.82 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 4520 | 1 | | 1.78 | 13.7 | 27.4 | EPA 6010C |
| 7440-36-0 | Antimony | <1.37 | 1 | U | 0.274 | 1.37 | 2.74 | EPA 6010C |
| 7440-38-2 | Arsenic | 1.86 | 1 | J | 0.590 | 1.37 | 2.74 | EPA 6010C |
| 7440-39-3 | Barium | 43.3 | 1 | | 0.0274 | 0.343 | 0.686 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.412 | 1 | | 0.0107 | 0.0343 | 0.0686 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.434 | 1 | | 0.00878 | 0.137 | 0.274 | EPA 6010C |
| 7440-70-2 | Calcium | 784 | 1 | | 2.61 | 17.2 | 34.3 | EPA 6010C |
| 7440-47-3 | Chromium | 6.94 | 1 | | 0.0302 | 0.343 | 0.686 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.35 | 1 | | 0.0576 | 0.686 | 2.74 | EPA 6010C |
| 7440-50-8 | Copper | 6.29 | 1 | | 0.151 | 0.343 | 0.686 | EPA 6010C |
| 7439-89-6 | Iron | 7070 | 1 | | 0.412 | 3.43 | 6.86 | EPA 6010C |
| 7439-92-1 | Lead | 24.3 | 1 | | 0.165 | 1.37 | 2.74 | EPA 6010C |
| 7439-95-4 | Magnesium | 533 | 1 | | 1.65 | 17.2 | 34.3 | EPA 6010C |
| 7439-96-5 | Manganese | 207 | 1 | | 0.0102 | 0.686 | 1.37 | EPA 6010C |
| 7440-02-0 | Nickel | 4.10 | 1 | | 0.0563 | 0.343 | 0.686 | EPA 6010C |
| 7440-09-7 | Potassium | 388 | 1 | | 5.21 | 34.3 | 68.6 | EPA 6010C |
| 7782-49-2 | Selenium | <1.37 | 1 | U | 0.220 | 1.37 | 2.74 | EPA 6010C |
| 7440-22-4 | Silver | <0.343 | 1 | U | 0.0672 | 0.343 | 0.686 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 11.5 | 1 | -J- | 3.29 | 17.2 | 34.3 | EPA 6010C |
| 7440-28-0 | Thallium | <2.74 | 1 | U | 0.398 | 2.74 | 5.49 | EPA 6010C |
| 7440-62-2 | Vanadium | 11.9 | 1 | | 0.0576 | 0.686 | 1.37 | EPA 6010C |
| 7440-66-6 | Zinc | 76.3 | 1 | | 0.645 | 1.37 | 2.74 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-08 (YS25-SB04-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-08

File ID: 042015a-057

Sampled: 04/08/15 10:45

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:21

Solids: 89.59

Preparation: EPA 3050B

Initial/Final: 0.85 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|--------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 4760 | 1 | | 1.71 | 13.1 | 26.3 | EPA 6010C |
| 7440-36-0 | Antimony | <1.31 | 1 | U | 0.263 | 1.31 | 2.63 | EPA 6010C |
| 7440-38-2 | Arsenic | 1.44 | 1 | J | 0.565 | 1.31 | 2.63 | EPA 6010C |
| 7440-39-3 | Barium | 37.5 | 1 | | 0.0263 | 0.328 | 0.657 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.399 | 1 | | 0.0102 | 0.0328 | 0.0657 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.429 | 1 | | 0.00840 | 0.131 | 0.263 | EPA 6010C |
| 7440-70-2 | Calcium | 551 | 1 | | 2.50 | 16.4 | 32.8 | EPA 6010C |
| 7440-47-3 | Chromium | 6.49 | 1 | | 0.0289 | 0.328 | 0.657 | EPA 6010C |
| 7440-48-4 | Cobalt | 2.80 | 1 | | 0.0552 | 0.657 | 2.63 | EPA 6010C |
| 7440-50-8 | Copper | 4.88 | 1 | | 0.144 | 0.328 | 0.657 | EPA 6010C |
| 7439-89-6 | Iron | 6040 | 1 | | 0.394 | 3.28 | 6.57 | EPA 6010C |
| 7439-92-1 | Lead | 12.0 | 1 | | 0.158 | 1.31 | 2.63 | EPA 6010C |
| 7439-95-4 | Magnesium | 478 | 1 | | 1.58 | 16.4 | 32.8 | EPA 6010C |
| 7439-96-5 | Manganese | 113 | 1 | | 0.00972 | 0.657 | 1.31 | EPA 6010C |
| 7440-02-0 | Nickel | 3.93 | 1 | | 0.0538 | 0.328 | 0.657 | EPA 6010C |
| 7440-09-7 | Potassium | 324 | 1 | | 4.99 | 32.8 | 65.7 | EPA 6010C |
| 7782-49-2 | Selenium | <1.31 | 1 | U | 0.210 | 1.31 | 2.63 | EPA 6010C |
| 7440-22-4 | Silver | <0.328 | 1 | U | 0.0643 | 0.328 | 0.657 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 11.5 | 1 | J | 3.15 | 16.4 | 32.8 | EPA 6010C |
| 7440-28-0 | Thallium | 0.428 | 1 | J | 0.381 | 2.63 | 5.25 | EPA 6010C |
| 7440-62-2 | Vanadium | 9.10 | 1 | | 0.0552 | 0.657 | 1.31 | EPA 6010C |
| 7440-66-6 | Zinc | 55.7 | 1 | | 0.617 | 1.31 | 2.63 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-09 (YS25-SS06-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-09

File ID: 042015a-060

Sampled: 04/08/15 11:10

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:27

Solids: 92.29

Preparation: EPA 3050B

Initial/Final: 0.79 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|----------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 5660 | 1 | | 1.78 | 13.7 | 27.4 | EPA 6010C |
| 7440-36-0 | Antimony | 0.461 | 1 | J | 0.274 | 1.37 | 2.74 | EPA 6010C |
| 7440-38-2 | Arsenic | 6.25 | 1 | | 0.590 | 1.37 | 2.74 | EPA 6010C |
| 7440-39-3 | Barium | 36.3 | 1 | | 0.0274 | 0.343 | 0.686 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.337 | 1 | | 0.0107 | 0.0343 | 0.0686 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.885 | 1 | | 0.00878 | 0.137 | 0.274 | EPA 6010C |
| 7440-70-2 | Calcium | 1160 | 1 | | 2.61 | 17.1 | 34.3 | EPA 6010C |
| 7440-47-3 | Chromium | 17.9 | 1 | | 0.0302 | 0.343 | 0.686 | EPA 6010C |
| 7440-48-4 | Cobalt | 1.86 | 1 | J | 0.0576 | 0.686 | 2.74 | EPA 6010C |
| 7440-50-8 | Copper | 10.8 | 1 | | 0.151 | 0.343 | 0.686 | EPA 6010C |
| 7439-89-6 | Iron | 8500 | 1 | | 0.411 | 3.43 | 6.86 | EPA 6010C |
| 7439-92-1 | Lead | 121 | 1 | | 0.165 | 1.37 | 2.74 | EPA 6010C |
| 7439-95-4 | Magnesium | 546 | 1 | | 1.65 | 17.1 | 34.3 | EPA 6010C |
| 7439-96-5 | Manganese | 72.5 | 1 | | 0.0101 | 0.686 | 1.37 | EPA 6010C |
| 7440-02-0 | Nickel | 4.32 | 1 | | 0.0562 | 0.343 | 0.686 | EPA 6010C |
| 7440-09-7 | Potassium | 289 | 1 | | 5.21 | 34.3 | 68.6 | EPA 6010C |
| 7782-49-2 | Selenium | <1.37 | 1 | U | 0.219 | 1.37 | 2.74 | EPA 6010C |
| 7440-22-4 | Silver | <0.343 | 1 | U | 0.0672 | 0.343 | 0.686 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 34.1 | 1 | -J- | 3.29 | 17.1 | 34.3 | EPA 6010C |
| 7440-28-0 | Thallium | <2.74 | 1 | U | 0.398 | 2.74 | 5.49 | EPA 6010C |
| 7440-62-2 | Vanadium | 14.7 | 1 | | 0.0576 | 0.686 | 1.37 | EPA 6010C |
| 7440-66-6 | Zinc | 134 | 1 | | 0.645 | 1.37 | 2.74 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-10 (YS25-SB06-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-10

File ID: 042015a-061

Sampled: 04/08/15 11:15

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:29

Solids: 89.32

Preparation: EPA 3050B

Initial/Final: 0.78 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------------------|---------------------------|-----------------|--------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 8730 | 1 | | 1.87 | 14.4 | 28.7 | EPA 6010C |
| 7440-36-0 | Antimony | <1.44 | 1 | U | 0.287 | 1.44 | 2.87 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.99 | 1 | | 0.617 | 1.44 | 2.87 | EPA 6010C |
| 7440-39-3 | Barium | 42.8 | 1 | | 0.0287 | 0.359 | 0.718 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.507 | 1 | | 0.0112 | 0.0359 | 0.0718 | EPA 6010C |
| 7440-43-9 | Cadmium | 0.123 | 1 | J | 0.00919 | 0.144 | 0.287 | EPA 6010C |
| 7440-70-2 | Calcium | 1080 | 1 | | 2.73 | 17.9 | 35.9 | EPA 6010C |
| 7440-47-3 | Chromium | 12.4 | 1 | | 0.0316 | 0.359 | 0.718 | EPA 6010C |
| 7440-48-4 | Cobalt | 3.67 | 1 | | 0.0603 | 0.718 | 2.87 | EPA 6010C |
| 7440-50-8 | Copper | 3.94 | 1 | | 0.158 | 0.359 | 0.718 | EPA 6010C |
| 7439-89-6 | Iron | 13200 | 1 | | 0.431 | 3.59 | 7.18 | EPA 6010C |
| 7439-92-1 | Lead | 33.4 | 1 | | 0.172 | 1.44 | 2.87 | EPA 6010C |
| 7439-95-4 | Magnesium | 744 | 1 | | 1.72 | 17.9 | 35.9 | EPA 6010C |
| 7439-96-5 | Manganese | 102 | 1 | | 0.0106 | 0.718 | 1.44 | EPA 6010C |
| 7440-02-0 | Nickel | 5.83 | 1 | | 0.0588 | 0.359 | 0.718 | EPA 6010C |
| 7440-09-7 | Potassium | 489 | 1 | | 5.45 | 35.9 | 71.8 | EPA 6010C |
| 7782-49-2 | Selenium | <1.44 | 1 | U | 0.230 | 1.44 | 2.87 | EPA 6010C |
| 7440-22-4 | Silver | <0.359 | 1 | U | 0.0703 | 0.359 | 0.718 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 18.7 | 1 | --J-- | 3.44 | 17.9 | 35.9 | EPA 6010C |
| 7440-28-0 | Thallium | <2.87 | 1 | U | 0.416 | 2.87 | 5.74 | EPA 6010C |
| 7440-62-2 | Vanadium | 20.3 | 1 | | 0.0603 | 0.718 | 1.44 | EPA 6010C |
| 7440-66-6 | Zinc | 45.7 | 1 | | 0.675 | 1.44 | 2.87 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET

A501753-12 (YS25-SS12-0415)

EPA 6010C

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-11

File ID: 042015a-062

Sampled: 04/08/15 12:30

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:31

Solids: 84.81

Preparation: EPA 3050B

Initial/Final: 0.74 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|------------------|---------------------------|-----------------|-----|--------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 8330 | 1 | | 2.07 | 15.9 | 31.9 | EPA 6010C |
| 7440-36-0 | Antimony | <1.59 | 1 | U | 0.319 | 1.59 | 3.19 | EPA 6010C |
| 7440-38-2 | Arsenic J - FD | 6.81 | 1 | | 0.685 | 1.59 | 3.19 | EPA 6010C |
| 7440-39-3 | Barium | 35.0 | 1 | | 0.0319 | 0.398 | 0.797 | EPA 6010C |
| 7440-41-7 | Beryllium J - FD | 1.25 | 1 | | 0.0124 | 0.0398 | 0.0797 | EPA 6010C |
| 7440-43-9 | Cadmium J - FD | 0.145 | 1 | L | 0.0102 | 0.159 | 0.319 | EPA 6010C |
| 7440-70-2 | Calcium | 1710 | 1 | | 3.03 | 19.9 | 39.8 | EPA 6010C |
| 7440-47-3 | Chromium | 20.5 | 1 | | 0.0351 | 0.398 | 0.797 | EPA 6010C |
| 7440-48-4 | Cobalt J - FD | 7.94 | 1 | | 0.0669 | 0.797 | 3.19 | EPA 6010C |
| 7440-50-8 | Copper | 4.69 | 1 | | 0.175 | 0.398 | 0.797 | EPA 6010C |
| 7439-89-6 | Iron | 22100 | 1 | | 0.478 | 3.98 | 7.97 | EPA 6010C |
| 7439-92-1 | Lead | 11.5 | 1 | | 0.191 | 1.59 | 3.19 | EPA 6010C |
| 7439-95-4 | Magnesium J - FD | 1080 | 1 | | 1.91 | 19.9 | 39.8 | EPA 6010C |
| 7439-96-5 | Manganese | 148 | 1 | | 0.0118 | 0.797 | 1.59 | EPA 6010C |
| 7440-02-0 | Nickel J - FD | 9.96 | 1 | | 0.0653 | 0.398 | 0.797 | EPA 6010C |
| 7440-09-7 | Potassium J - FD | 1130 | 1 | | 6.05 | 39.8 | 79.7 | EPA 6010C |
| 7782-49-2 | Selenium | <1.59 | 1 | U | 0.255 | 1.59 | 3.19 | EPA 6010C |
| 7440-22-4 | Silver | <0.398 | 1 | U | 0.0781 | 0.398 | 0.797 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 16.3 | 1 | -J- | 3.82 | 19.9 | 39.8 | EPA 6010C |
| 7440-28-0 | Thallium | 0.763 | 1 | J | 0.462 | 3.19 | 6.37 | EPA 6010C |
| 7440-62-2 | Vanadium | 26.2 | 1 | | 0.0669 | 0.797 | 1.59 | EPA 6010C |
| 7440-66-6 | Zinc | 48.8 | 1 | | 0.749 | 1.59 | 3.19 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-13 (YS25-SB12-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-12

File ID: 042015a-063

Sampled: 04/08/15 12:40

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:33

Solids: 81.94

Preparation: EPA 3050B

Initial/Final: 0.7 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-------------------------|---------------------------|-----------------|--------------|--------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 9750 | 1 | | 2.27 | 17.4 | 34.9 | EPA 6010C |
| 7440-36-0 | Antimony | <1.74 | 1 | U | 0.349 | 1.74 | 3.49 | EPA 6010C |
| 7440-38-2 | Arsenic | 3.30 | 1 | J | 0.750 | 1.74 | 3.49 | EPA 6010C |
| 7440-39-3 | Barium | 53.4 | 1 | | 0.0349 | 0.436 | 0.872 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.532 | 1 | | 0.0136 | 0.0436 | 0.0872 | EPA 6010C |
| 7440-43-9 | Cadmium UJ - FD | <0.174 | 1 | --U-- | 0.0112 | 0.174 | 0.349 | EPA 6010C |
| 7440-70-2 | Calcium | 1050 | 1 | | 3.31 | 21.8 | 43.6 | EPA 6010C |
| 7440-47-3 | Chromium | 10.5 | 1 | | 0.0384 | 0.436 | 0.872 | EPA 6010C |
| 7440-48-4 | Cobalt | 4.17 | 1 | | 0.0732 | 0.872 | 3.49 | EPA 6010C |
| 7440-50-8 | Copper J - FD | 3.76 | 1 | | 0.192 | 0.436 | 0.872 | EPA 6010C |
| 7439-89-6 | Iron | 14000 | 1 | | 0.523 | 4.36 | 8.72 | EPA 6010C |
| 7439-92-1 | Lead J - FD | 6.97 | 1 | | 0.209 | 1.74 | 3.49 | EPA 6010C |
| 7439-95-4 | Magnesium | 706 | 1 | | 2.09 | 21.8 | 43.6 | EPA 6010C |
| 7439-96-5 | Manganese J - FD | 91.2 | 1 | | 0.0129 | 0.872 | 1.74 | EPA 6010C |
| 7440-02-0 | Nickel | 6.01 | 1 | | 0.0715 | 0.436 | 0.872 | EPA 6010C |
| 7440-09-7 | Potassium | 557 | 1 | | 6.63 | 43.6 | 87.2 | EPA 6010C |
| 7782-49-2 | Selenium | <1.74 | 1 | U | 0.279 | 1.74 | 3.49 | EPA 6010C |
| 7440-22-4 | Silver | <0.436 | 1 | U | 0.0854 | 0.436 | 0.872 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 15.6 | 1 | --J-- | 4.18 | 21.8 | 43.6 | EPA 6010C |
| 7440-28-0 | Thallium | <3.49 | 1 | U | 0.506 | 3.49 | 6.97 | EPA 6010C |
| 7440-62-2 | Vanadium | 20.0 | 1 | | 0.0732 | 0.872 | 1.74 | EPA 6010C |
| 7440-66-6 | Zinc J - FD | 26.6 | 1 | | 0.819 | 1.74 | 3.49 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-14 (YS25-EB040815)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water

Laboratory ID: B501681-13

File ID: 041515aRP1-020

Sampled: 04/08/15 13:45

Prepared: 04/14/15 12:26

Analyzed: 04/15/15 10:52

Solids: 0.00

Preparation: EPA 3005A

Initial/Final: 50 mL / 50 mL

Batch: 5D14006

Sequence: BA16530

Calibration: 1504003

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (ug/L) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-----------|----------------------|-----------------|---|-------|-------|------|-----------|
| 7429-90-5 | Aluminum | <200 | 1 | U | 41.0 | 200 | 400 | EPA 6010C |
| 7440-36-0 | Antimony | <20.0 | 1 | U | 5.00 | 20.0 | 40.0 | EPA 6010C |
| 7440-38-2 | Arsenic | <20.0 | 1 | U | 8.00 | 20.0 | 40.0 | EPA 6010C |
| 7440-39-3 | Barium | 0.567 | 1 | J | 0.390 | 5.00 | 10.0 | EPA 6010C |
| 7440-41-7 | Beryllium | <0.500 | 1 | U | 0.120 | 0.500 | 1.00 | EPA 6010C |
| 7440-43-9 | Cadmium | <2.00 | 1 | U | 0.280 | 2.00 | 4.00 | EPA 6010C |
| 7440-70-2 | Calcium | 54.9 | 1 | J | 39.0 | 250 | 500 | EPA 6010C |
| 7440-47-3 | Chromium | <5.00 | 1 | U | 1.10 | 5.00 | 10.0 | EPA 6010C |
| 7440-48-4 | Cobalt | <10.0 | 1 | U | 1.50 | 10.0 | 40.0 | EPA 6010C |
| 7440-50-8 | Copper | 2.30 | 1 | J | 0.870 | 5.00 | 10.0 | EPA 6010C |
| 7439-89-6 | Iron | 7.06 | 1 | J | 6.00 | 50.0 | 100 | EPA 6010C |
| 7439-92-1 | Lead | <20.0 | 1 | U | 2.50 | 20.0 | 40.0 | EPA 6010C |
| 7439-95-4 | Magnesium | <250 | 1 | U | 17.0 | 250 | 500 | EPA 6010C |
| 7439-96-5 | Manganese | <10.0 | 1 | U | 0.550 | 10.0 | 20.0 | EPA 6010C |
| 7440-02-0 | Nickel | <5.00 | 1 | U | 0.690 | 5.00 | 10.0 | EPA 6010C |
| 7440-09-7 | Potassium | <500 | 1 | U | 110 | 500 | 1000 | EPA 6010C |
| 7782-49-2 | Selenium | <20.0 | 1 | U | 8.20 | 20.0 | 40.0 | EPA 6010C |
| 7440-22-4 | Silver | <5.00 | 1 | U | 0.540 | 5.00 | 10.0 | EPA 6010C |
| 7440-23-5 | Sodium | 324 | 1 | J | 44.0 | 250 | 500 | EPA 6010C |
| 7440-28-0 | Thallium | <40.0 | 1 | U | 8.30 | 40.0 | 80.0 | EPA 6010C |
| 7440-62-2 | Vanadium | <10.0 | 1 | U | 0.500 | 10.0 | 20.0 | EPA 6010C |
| 7440-66-6 | Zinc | <10.0 | 1 | U | 6.30 | 10.0 | 20.0 | EPA 6010C |

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-15
(YS25-SB12P-0H02-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-14

File ID: 042015a-064

Sampled: 04/08/15 12:45

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:35

Solids: 82.74

Preparation: EPA 3050B

Initial/Final: 0.81 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-------------------------|---------------------------|-----------------|--------------|---------|--------|--------|-----------|
| 7429-90-5 | Aluminum | 9190 | 1 | | 1.94 | 14.9 | 29.8 | EPA 6010C |
| 7440-36-0 | Antimony | <1.49 | 1 | U | 0.298 | 1.49 | 2.98 | EPA 6010C |
| 7440-38-2 | Arsenic | 4.00 | 1 | | 0.642 | 1.49 | 2.98 | EPA 6010C |
| 7440-39-3 | Barium | 47.9 | 1 | | 0.0298 | 0.373 | 0.746 | EPA 6010C |
| 7440-41-7 | Beryllium | 0.595 | 1 | | 0.0116 | 0.0373 | 0.0746 | EPA 6010C |
| 7440-43-9 | Cadmium J - FD | 0.181 | 1 | J | 0.00955 | 0.149 | 0.298 | EPA 6010C |
| 7440-70-2 | Calcium | 1100 | 1 | | 2.84 | 18.7 | 37.3 | EPA 6010C |
| 7440-47-3 | Chromium | 13.3 | 1 | | 0.0328 | 0.373 | 0.746 | EPA 6010C |
| 7440-48-4 | Cobalt | 5.38 | 1 | | 0.0627 | 0.746 | 2.98 | EPA 6010C |
| 7440-50-8 | Copper J - FD | 7.50 | 1 | | 0.164 | 0.373 | 0.746 | EPA 6010C |
| 7439-89-6 | Iron | 15900 | 1 | | 0.448 | 3.73 | 7.46 | EPA 6010C |
| 7439-92-1 | Lead J - FD | 13.9 | 1 | | 0.179 | 1.49 | 2.98 | EPA 6010C |
| 7439-95-4 | Magnesium | 786 | 1 | | 1.79 | 18.7 | 37.3 | EPA 6010C |
| 7439-96-5 | Manganese J - FD | 180 | 1 | | 0.0110 | 0.746 | 1.49 | EPA 6010C |
| 7440-02-0 | Nickel | 6.19 | 1 | | 0.0612 | 0.373 | 0.746 | EPA 6010C |
| 7440-09-7 | Potassium | 590 | 1 | | 5.67 | 37.3 | 74.6 | EPA 6010C |
| 7782-49-2 | Selenium | <1.49 | 1 | U | 0.239 | 1.49 | 2.98 | EPA 6010C |
| 7440-22-4 | Silver | <0.373 | 1 | U | 0.0731 | 0.373 | 0.746 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 16.3 | 1 | J | 3.58 | 18.7 | 37.3 | EPA 6010C |
| 7440-28-0 | Thallium | 0.626 | 1 | J | 0.433 | 2.98 | 5.97 | EPA 6010C |
| 7440-62-2 | Vanadium | 23.4 | 1 | | 0.0627 | 0.746 | 1.49 | EPA 6010C |
| 7440-66-6 | Zinc J - FD | 44.1 | 1 | | 0.701 | 1.49 | 2.98 | EPA 6010C |

KW071215

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INORGANIC ANALYSIS DATA SHEET
EPA 6010C

A501753-16 (YS25-SS12P-0415)

Laboratory: ENCO Jacksonville

SDG: A501753-CTO-

Client: ENCO Orlando

Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil

Laboratory ID: B501681-15

File ID: 042015a-065

Sampled: 04/08/15 12:35

Prepared: 04/17/15 09:38

Analyzed: 04/20/15 12:37

Solids: 82.46

Preparation: EPA 3050B

Initial/Final: 0.57 g / 50 mL

Batch: 5D17002

Sequence: BA16540

Calibration: 1504004

Instrument: JMICP2

| CAS NO. | Analyte | Concentration (mg/kg dry) | Dilution Factor | Q | DL | LOD | LOQ | Method |
|-----------|-------------------------|---------------------------|-----------------|------------|--------|--------|-------|-----------|
| 7429-90-5 | Aluminum | 7260 | 1 | | 2.77 | 21.3 | 42.6 | EPA 6010C |
| 7440-36-0 | Antimony | <2.13 | 1 | U | 0.426 | 2.13 | 4.26 | EPA 6010C |
| 7440-38-2 | Arsenic J - FD | 4.54 | 1 | | 0.915 | 2.13 | 4.26 | EPA 6010C |
| 7440-39-3 | Barium | 30.5 | 1 | | 0.0426 | 0.532 | 1.06 | EPA 6010C |
| 7440-41-7 | Beryllium J - FD | 0.606 | 1 | | 0.0166 | 0.0532 | 0.106 | EPA 6010C |
| 7440-43-9 | Cadmium J - FD | 0.0648 | 1 | J | 0.0136 | 0.213 | 0.426 | EPA 6010C |
| 7440-70-2 | Calcium | 1570 | 1 | | 4.04 | 26.6 | 53.2 | EPA 6010C |
| 7440-47-3 | Chromium | 15.4 | 1 | | 0.0468 | 0.532 | 1.06 | EPA 6010C |
| 7440-48-4 | Cobalt J - FD | 5.07 | 1 | | 0.0894 | 1.06 | 4.26 | EPA 6010C |
| 7440-50-8 | Copper | 5.57 | 1 | | 0.234 | 0.532 | 1.06 | EPA 6010C |
| 7439-89-6 | Iron | 17200 | 1 | | 0.638 | 5.32 | 10.6 | EPA 6010C |
| 7439-92-1 | Lead | 22.4 | 1 | | 0.255 | 2.13 | 4.26 | EPA 6010C |
| 7439-95-4 | Magnesium J - FD | 704 | 1 | | 2.55 | 26.6 | 53.2 | EPA 6010C |
| 7439-96-5 | Manganese | 144 | 1 | | 0.0157 | 1.06 | 2.13 | EPA 6010C |
| 7440-02-0 | Nickel J - FD | 6.10 | 1 | | 0.0872 | 0.532 | 1.06 | EPA 6010C |
| 7440-09-7 | Potassium J - FD | 700 | 1 | | 8.08 | 53.2 | 106 | EPA 6010C |
| 7782-49-2 | Selenium | <2.13 | 1 | U | 0.340 | 2.13 | 4.26 | EPA 6010C |
| 7440-22-4 | Silver | <0.532 | 1 | U | 0.104 | 0.532 | 1.06 | EPA 6010C |
| 7440-23-5 | Sodium B - EBL | 12.5 | 1 | -J- | 5.11 | 26.6 | 53.2 | EPA 6010C |
| 7440-28-0 | Thallium | 0.664 | 1 | J | 0.617 | 4.26 | 8.51 | EPA 6010C |
| 7440-62-2 | Vanadium | 24.3 | 1 | | 0.0894 | 1.06 | 2.13 | EPA 6010C |
| 7440-66-6 | Zinc | 54.7 | 1 | | 1.00 | 2.13 | 4.26 | EPA 6010C |

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ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01 File ID: 5DH013.D
 Sampled: 04/08/15 09:15 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 13:53
 Solids: 82.68 Preparation: EPA 5030B_MS Initial/Final: 6.18 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | UL-SSL | <2.0 | U | 0.6 | 2.0 | 4.9 | |
| 74-87-3 | Chloromethane | | 1 | <2.0 | U | 0.6 | 2.0 | 4.9 |
| 75-01-4 | Vinyl chloride | | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 74-83-9 | Bromomethane | | 1 | <2.0 | U | 0.9 | 2.0 | 4.9 |
| 75-00-3 | Chloroethane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 4.9 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 76-13-1 | Freon 113 | ↓ | 1 | <2.0 | UQ | 0.6 | 2.0 | 4.9 |
| 67-64-1 | Acetone | L-SSL | 1 | 5.4 | JQ | 3.7 | 12 | 24 |
| 75-35-4 | 1,1-Dichloroethene | UL-SSL | 1 | <2.0 | U | 0.6 | 2.0 | 4.9 |
| 75-15-0 | Carbon disulfide | | 1 | <9.8 | U | 2.1 | 9.8 | 24 |
| 75-09-2 | Methylene Chloride | | 1 | <4.9 | U | 0.8 | 4.9 | 24 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.0 | U | 0.3 | 2.0 | 4.9 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.0 | U | 0.7 | 2.0 | 4.9 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.0 | UQ | 0.5 | 2.0 | 4.9 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.0 | U | 0.6 | 2.0 | 4.9 |
| 78-93-3 | 2-Butanone | | 1 | <9.8 | U | 2.0 | 9.8 | 24 |
| 67-66-3 | Chloroform | | 1 | <2.0 | UQ | 0.4 | 2.0 | 4.9 |
| 74-97-5 | Bromochloromethane | | 1 | <2.0 | UQ | 0.7 | 2.0 | 4.9 |
| 71-55-6 | 1,1,1-Trichloroethane | ↓ | 1 | <2.0 | UQ | 0.3 | 2.0 | 4.9 |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <2.0 | -UQ | 1.6 | 2.0 | 4.9 |
| 110-82-7 | Cyclohexane | UL-SSL | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 108-87-2 | Methyl cyclohexane | | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.0 | UQ | 0.6 | 2.0 | 4.9 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 71-43-2 | Benzene | | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 79-01-6 | Trichloroethene | | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 75-27-4 | Bromodichloromethane | ↓ | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <9.8 | U | 3.5 | 9.8 | 24 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <9.8 | UQ | 3.3 | 9.8 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene | UL-SSL | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 108-88-3 | Toluene | | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 79-00-5 | 1,1,2-Trichloroethane | ↓ | 1 | <2.0 | U | 0.6 | 2.0 | 4.9 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01 File ID: 5DH013.D
 Sampled: 04/08/15 09:15 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 13:53
 Solids: 82.68 Preparation: EPA 5030B_MS Initial/Final: 6.18 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---------------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene UL-SSL | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | U | 0.7 | 2.0 | 4.9 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.9 | UQ | 1.0 | 3.9 | 9.8 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.8 | 2.0 | 4.9 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 4.9 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 4.9 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | U | 0.8 | 2.0 | 4.9 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 4.9 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 48.9 | 46 | 93 | 74 - 133 | |
| Toluene-d8 | 48.9 | 39 | 81 | 85 - 115 | * |
| 4-Bromofluorobenzene | 48.9 | 32 | 65 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 735048 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1407035 | 12.172 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1220778 | 15.607 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 405481 | 18.573 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01RE1 File ID: 5DL007.D

Sampled: 04/08/15 09:15 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 11:37

Solids: 82.68 Preparation: EPA 5030B_MS Initial/Final: 6.09 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane Exclude-RE | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 74-87-3 | Chloromethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 75-01-4 | Vinyl chloride | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.0 |
| 74-83-9 | Bromomethane | 1 | <2.0 | UQ | 0.9 | 2.0 | 5.0 |
| 75-00-3 | Chloroethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 76-13-1 | Freon 113 | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 67-64-1 | Acetone | 1 | 8.2 | UQ | 3.8 | 12 | 25 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 75-15-0 | Carbon disulfide | 1 | <9.9 | UQ | 2.1 | 9.9 | 25 |
| 75-09-2 | Methylene Chloride | 1 | <5.0 | UQ | 0.8 | 5.0 | 25 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.0 | U | 0.3 | 2.0 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.0 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 78-93-3 | 2-Butanone | 1 | <9.9 | U | 2.0 | 9.9 | 25 |
| 67-66-3 | Chloroform | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.0 |
| 74-97-5 | Bromochloromethane | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.0 | UQ | 0.3 | 2.0 | 5.0 |
| 79-20-9 | Methyl acetate | 1 | <2.0 | U | 1.6 | 2.0 | 5.0 |
| 110-82-7 | Cyclohexane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 71-43-2 | Benzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 79-01-6 | Trichloroethene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <9.9 | U | 3.6 | 9.9 | 25 |
| 591-78-6 | 2-Hexanone | 1 | <9.9 | UQ | 3.4 | 9.9 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 108-88-3 | Toluene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS01-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-01RE1 File ID: 5DL007.D

Sampled: 04/08/15 09:15 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 11:37

Solids: 82.68 Preparation: EPA 5030B_MS Initial/Final: 6.09 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.0 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.0 | U | 1.0 | 4.0 | 9.9 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.8 | 2.0 | 5.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | UQ | 0.8 | 2.0 | 5.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 49.7 | 64 | 129 | 74 - 133 | |
| Toluene-d8 | 49.7 | 54 | 110 | 85 - 115 | |
| 4-Bromofluorobenzene | 49.7 | 41 | 82 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 437332 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 856300 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 883491 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 365709 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-02 File ID: 5DH014.D
 Sampled: 04/08/15 09:25 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 14:24
 Solids: 87.72 Preparation: EPA 5030B_MS Initial/Final: 5.97 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 74-87-3 | Chloromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 75-01-4 | Vinyl chloride | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 74-83-9 | Bromomethane | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 | |
| 75-00-3 | Chloroethane | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 | |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 76-13-1 | Freon 113 | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 | |
| 67-64-1 | Acetone | 1 | 6.6 | JQ | 3.6 | 12 | 24 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 75-15-0 | Carbon disulfide | 1 | <9.5 | U | 2.0 | 9.5 | 24 | |
| 75-09-2 | Methylene Chloride | 1 | <4.8 | U | 0.7 | 4.8 | 24 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.9 | U | 0.3 | 1.9 | 4.8 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 78-93-3 | 2-Butanone | 1 | <9.5 | U | 1.9 | 9.5 | 24 | |
| 67-66-3 | Chloroform | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.8 | |
| 74-97-5 | Bromochloromethane | 1 | <1.9 | UQ | 0.7 | 1.9 | 4.8 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.9 | UQ | 0.3 | 1.9 | 4.8 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.9 | UQ | 1.5 | 1.9 | 4.8 |
| 110-82-7 | Cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 71-43-2 | Benzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 79-01-6 | Trichloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <9.5 | X | 3.4 | 9.5 | 24 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <9.5 | UQ | 3.2 | 9.5 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 108-88-3 | Toluene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SB01-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-02 File ID: 5DH014.D
 Sampled: 04/08/15 09:25 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 14:24
 Solids: 87.72 Preparation: EPA 5030B_MS Initial/Final: 5.97 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-----------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-38-3/106-42 -3 | m,p-Xylenes | 1 | <3.8 | UQ | 0.9 | 3.8 | 9.5 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 47.7 | 51 | 108 | 74 - 133 | |
| Toluene-d8 | 47.7 | 46 | 96 | 85 - 115 | |
| 4-Bromofluorobenzene | 47.7 | 40 | 85 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 653726 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1239534 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1183156 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 533703 | 18.573 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-03 File ID: 5DH015.D
 Sampled: 04/08/15 09:45 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 14:55
 Solids: 80.29 Preparation: EPA 5030B_MS Initial/Final: 5.44 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | UL-SSL | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 74-87-3 | Chloromethane | | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 75-01-4 | Vinyl chloride | | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 74-83-9 | Bromomethane | | <2.5 | U | 1.1 | 2.5 | 6.2 |
| 75-00-3 | Chloroethane | | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 75-69-4 | Trichlorofluoromethane | | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 76-13-1 | Freon 113 | | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 67-64-1 | Acetone | L-SSL | 42 | Q | 4.7 | 16 | 31 |
| 75-35-4 | 1,1-Dichloroethene | UL-SSL | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 75-15-0 | Carbon disulfide | | <12 | U | 2.6 | 12 | 31 |
| 75-09-2 | Methylene Chloride | | <6.2 | U | 1.0 | 6.2 | 31 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | <2.5 | U | 0.3 | 2.5 | 6.2 |
| 156-60-5 | trans-1,2-Dichloroethene | | <2.5 | U | 0.9 | 2.5 | 6.2 |
| 156-59-2 | cis-1,2-Dichloroethene | | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 75-34-3 | 1,1-Dichloroethane | | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 78-93-3 | 2-Butanone | L-SSL | 7.1 | J | 2.5 | 12 | 31 |
| 67-66-3 | Chloroform | UL-SSL | <2.5 | UQ | 0.5 | 2.5 | 6.2 |
| 74-97-5 | Bromochloromethane | | <2.5 | UQ | 0.9 | 2.5 | 6.2 |
| 71-55-6 | 1,1,1-Trichloroethane | | <2.5 | UQ | 0.4 | 2.5 | 6.2 |
| 79-20-9 | Methyl acetate | UJ-2S | <2.5 | UQ | 2.0 | 2.5 | 6.2 |
| 110-82-7 | Cyclohexane | UL-SSL | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 108-87-2 | Methyl cyclohexane | | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 56-23-5 | Carbon Tetrachloride | | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 107-06-2 | 1,2-Dichloroethane | | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 71-43-2 | Benzene | | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 79-01-6 | Trichloroethene | | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 78-87-5 | 1,2-Dichloropropane | | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 75-27-4 | Bromodichloromethane | | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | <12 | U | 4.5 | 12 | 31 |
| 591-78-6 | 2-Hexanone | UJ-CCL | <12 | UQ | 4.2 | 12 | 31 |
| 10061-01-5 | cis-1,3-Dichloropropene | UL-SSL | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 108-88-3 | Toluene | | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 10061-02-6 | trans-1,3-Dichloropropene | | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 79-00-5 | 1,1,2-Trichloroethane | | <2.5 | U | 0.7 | 2.5 | 6.2 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-03 File ID: 5DH015.D
 Sampled: 04/08/15 09:45 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 14:55
 Solids: 80.29 Preparation: EPA 5030B_MS Initial/Final: 5.44 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene UL-SSL | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 124-48-1 | Dibromochloromethane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 108-90-7 | Chlorobenzene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 100-41-4 | Ethylbenzene | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <5.0 | UQ | 1.2 | 5.0 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 75-25-2 | Bromoform | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 100-42-5 | Styrene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 98-82-8 | Isopropylbenzene | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 57.2 | 66 | 115 | 74 - 133 | |
| Toluene-d8 | 57.2 | 57 | 100 | 85 - 115 | |
| 4-Bromofluorobenzene | 57.2 | 47 | 82 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 600851 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1109960 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 996121 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 403345 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-03RE1 File ID: 5DL008.D
 Sampled: 04/08/15 09:45 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 12:08
 Solids: 80.29 Preparation: EPA 5030B_MS Initial/Final: 5.49 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.5 | UQ | 0.8 | 2.5 | 6.2 |
| 74-87-3 | Chloromethane | 1 | <2.5 | U | 0.8 | 2.5 | 6.2 |
| 75-01-4 | Vinyl chloride | 1 | <2.5 | UQ | 0.5 | 2.5 | 6.2 |
| 74-83-9 | Bromomethane | 1 | <2.5 | UQ | 1.1 | 2.5 | 6.2 |
| 75-00-3 | Chloroethane | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 76-13-1 | Freon 113 | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 67-64-1 | Acetone | 1 | 9.7 | JQ | 4.7 | 16 | 31 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.5 | UQ | 0.8 | 2.5 | 6.2 |
| 75-15-0 | Carbon disulfide | 1 | <12 | UQ | 2.6 | 12 | 31 |
| 75-09-2 | Methylene Chloride | 1 | <6.2 | UQ | 1.0 | 6.2 | 31 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.5 | U | 0.3 | 2.5 | 6.2 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.5 | UQ | 0.9 | 2.5 | 6.2 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 78-93-3 | 2-Butanone | 1 | <12 | U | 2.5 | 12 | 31 |
| 67-66-3 | Chloroform | 1 | <2.5 | UQ | 0.5 | 2.5 | 6.2 |
| 74-97-5 | Bromochloromethane | 1 | <2.5 | UQ | 0.9 | 2.5 | 6.2 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.5 | UQ | 0.4 | 2.5 | 6.2 |
| 79-20-9 | Methyl acetate | 1 | <2.5 | U | 2.0 | 2.5 | 6.2 |
| 110-82-7 | Cyclohexane | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.5 | UQ | 0.6 | 2.5 | 6.2 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.5 | UQ | 0.7 | 2.5 | 6.2 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 71-43-2 | Benzene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 79-01-6 | Trichloroethene | 1 | <2.5 | UQ | 0.6 | 2.5 | 6.2 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 75-27-4 | Bromodichloromethane | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <12 | U | 4.5 | 12 | 31 |
| 591-78-6 | 2-Hexanone | 1 | <12 | UQ | 4.2 | 12 | 31 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 108-88-3 | Toluene | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-03RE1 File ID: 5DL008.D

Sampled: 04/08/15 09:45 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 12:08

Solids: 80.29 Preparation: EPA 5030B_MS Initial/Final: 5.49 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|-------------------|-----------------------------|------------|-------------------|------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | Exclude-RE | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 124-48-1 | Dibromochloromethane | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 106-93-4 | 1,2-Dibromoethane | | 1 | <2.5 | UQ | 0.8 | 2.5 | 6.2 |
| 108-90-7 | Chlorobenzene | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 100-41-4 | Ethylbenzene | | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 108-38-3/106-42-3 | m,p-Xylenes | | 1 | <5.0 | U | 1.2 | 5.0 | 12 |
| 95-47-6 | o-Xylene | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 75-25-2 | Bromoform | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 100-42-5 | Styrene | | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 98-82-8 | Isopropylbenzene | | 1 | <2.5 | U | 0.7 | 2.5 | 6.2 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | <2.5 | U | 0.6 | 2.5 | 6.2 |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | <2.5 | U | 0.5 | 2.5 | 6.2 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 1 | <2.5 | UQ | 1.1 | 2.5 | 6.2 |
| 87-61-6 | 1,2,3-Trichlorobenzene | | 1 | <2.5 | U | 1.1 | 2.5 | 6.2 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 56.7 | 62 | 109 | 74 - 133 | |
| Toluene-d8 | 56.7 | 53 | 94 | 85 - 115 | |
| 4-Bromofluorobenzene | 56.7 | 46 | 81 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 549557 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1088364 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1188887 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 632387 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-04 File ID: 5DH016.D
 Sampled: 04/08/15 09:55 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 15:26
 Solids: 88.62 Preparation: EPA 5030B_MS Initial/Final: 5.69 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | UL-SSL | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 74-87-3 | Chloromethane | | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 75-01-4 | Vinyl chloride | | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 74-83-9 | Bromomethane | | <2.0 | U | 0.9 | 2.0 | 5.0 |
| 75-00-3 | Chloroethane | | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 75-69-4 | Trichlorofluoromethane | | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 76-13-1 | Freon 113 | ↓ L-SSL | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 67-64-1 | Acetone | L-SSL | 14 | IQ | 3.8 | 12 | 25 |
| 75-35-4 | 1,1-Dichloroethene | UL-SSL | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 75-15-0 | Carbon disulfide | UL-SSL | <9.9 | U | 2.1 | 9.9 | 25 |
| 75-09-2 | Methylene Chloride | L-SSL | 0.9 | IQ | 0.8 | 5.0 | 25 |
| 1634-04-4 | Methyl-tert-Butyl Ether | UL-SSL | <2.0 | U | 0.3 | 2.0 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | <2.0 | U | 0.7 | 2.0 | 5.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 78-93-3 | 2-Butanone | | <9.9 | U | 2.0 | 9.9 | 25 |
| 67-66-3 | Chloroform | | <2.0 | UQ | 0.4 | 2.0 | 5.0 |
| 74-97-5 | Bromochloromethane | | <2.0 | UQ | 0.7 | 2.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | ↓ UJ-2S | <2.0 | UQ | 0.3 | 2.0 | 5.0 |
| 79-20-9 | Methyl acetate | UJ-2S | <2.0 | UQ | 1.6 | 2.0 | 5.0 |
| 110-82-7 | Cyclohexane | UL-SSL | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 108-87-2 | Methyl cyclohexane | | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 71-43-2 | Benzene | | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 79-01-6 | Trichloroethene | | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | ↓ UJ-2S | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | <9.9 | U | 3.6 | 9.9 | 25 |
| 591-78-6 | 2-Hexanone | UJ-CCL | <9.9 | UQ | 3.4 | 9.9 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | UL-SSL | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 108-88-3 | Toluene | | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | ↓ | <2.0 | U | 0.6 | 2.0 | 5.0 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-04 File ID: 5DH016.D
 Sampled: 04/08/15 09:55 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 15:26
 Solids: 88.62 Preparation: EPA 5030B_MS Initial/Final: 5.69 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---------------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene UL-SSL | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | U | 0.7 | 2.0 | 5.0 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.0 | UQ | 1.0 | 4.0 | 9.9 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.8 | 2.0 | 5.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | U | 0.8 | 2.0 | 5.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 49.6 | 48 | 98 | 74 - 133 | |
| Toluene-d8 | 49.6 | 43 | 86 | 85 - 115 | |
| 4-Bromofluorobenzene | 49.6 | 39 | 78 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 765765 | 11.474 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1435013 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1402925 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 665340 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-04RE1 File ID: 5DL009.D
 Sampled: 04/08/15 09:55 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 12:39
 Solids: 88.62 Preparation: EPA 5030B_MS Initial/Final: 7.14 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|------------|-------------------|------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | Exclude-RE | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 74-87-3 | Chloromethane | | 1 | <1.6 | U | 0.5 | 1.6 | 4.0 |
| 75-01-4 | Vinyl chloride | | 1 | <1.6 | UQ | 0.3 | 1.6 | 4.0 |
| 74-83-9 | Bromomethane | | 1 | <1.6 | UQ | 0.7 | 1.6 | 4.0 |
| 75-00-3 | Chloroethane | | 1 | <1.6 | UQ | 0.4 | 1.6 | 4.0 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.6 | UQ | 0.4 | 1.6 | 4.0 |
| 76-13-1 | Freon 113 | | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 67-64-1 | Acetone | | 1 | 9.1 | JQ | 3.0 | 9.9 | 20 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 75-15-0 | Carbon disulfide | | 1 | <7.9 | UQ | 1.7 | 7.9 | 20 |
| 75-09-2 | Methylene Chloride | | 1 | <4.0 | UQ | 0.6 | 4.0 | 20 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <1.6 | U | 0.2 | 1.6 | 4.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.6 | UQ | 0.4 | 1.6 | 4.0 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 78-93-3 | 2-Butanone | | 1 | <7.9 | U | 1.6 | 7.9 | 20 |
| 67-66-3 | Chloroform | | 1 | <1.6 | UQ | 0.3 | 1.6 | 4.0 |
| 74-97-5 | Bromochloromethane | | 1 | <1.6 | UQ | 0.6 | 1.6 | 4.0 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.6 | UQ | 0.3 | 1.6 | 4.0 |
| 79-20-9 | Methyl acetate | | 1 | <1.6 | U | 1.3 | 1.6 | 4.0 |
| 110-82-7 | Cyclohexane | | 1 | <1.6 | UQ | 0.4 | 1.6 | 4.0 |
| 108-87-2 | Methyl cyclohexane | | 1 | <1.6 | UQ | 0.4 | 1.6 | 4.0 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 71-43-2 | Benzene | | 1 | <1.6 | U | 0.3 | 1.6 | 4.0 |
| 79-01-6 | Trichloroethene | | 1 | <1.6 | UQ | 0.4 | 1.6 | 4.0 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 108-10-1 | 4-Methyl-2-pentanone | | 1 | <7.9 | U | 2.8 | 7.9 | 20 |
| 591-78-6 | 2-Hexanone | | 1 | <7.9 | UQ | 2.7 | 7.9 | 20 |
| 10061-01-5 | cis-1,3-Dichloropropene | | 1 | <1.6 | U | 0.3 | 1.6 | 4.0 |
| 108-88-3 | Toluene | | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1 | <1.6 | U | 0.3 | 1.6 | 4.0 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.6 | U | 0.5 | 1.6 | 4.0 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB02-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-04RE1 File ID: 5DL009.D
 Sampled: 04/08/15 09:55 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 12:39
 Solids: 88.62 Preparation: EPA 5030B_MS Initial/Final: 7.14 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-------------------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 124-48-1 | Dibromochloromethane | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.6 | UQ | 0.5 | 1.6 | 4.0 |
| 108-90-7 | Chlorobenzene | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 100-41-4 | Ethylbenzene | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.2 | U | 0.8 | 3.2 | 7.9 |
| 95-47-6 | o-Xylene | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 75-25-2 | Bromoform | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 100-42-5 | Styrene | 1 | <1.6 | U | 0.3 | 1.6 | 4.0 |
| 98-82-8 | Isopropylbenzene | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.6 | U | 0.7 | 1.6 | 4.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.6 | U | 0.4 | 1.6 | 4.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.6 | U | 0.3 | 1.6 | 4.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.6 | UQ | 0.7 | 1.6 | 4.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.6 | U | 0.7 | 1.6 | 4.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 39.5 | 42 | 107 | 74 - 133 | |
| Toluene-d8 | 39.5 | 35 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 39.5 | 28 | 71 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 515670 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1038096 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1076212 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 465735 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05 File ID: 5DH017.D
 Sampled: 04/08/15 10:10 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 15:58
 Solids: 76.58 Preparation: EPA 5030B_MS Initial/Final: 6.41 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|------|----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | UL-SSL | 1 | <2.0 | U | 0.6 | 2.0 |
| 74-87-3 | Chloromethane | | 1 | <2.0 | U | 0.7 | 2.0 |
| 75-01-4 | Vinyl chloride | | 1 | <2.0 | U | 0.4 | 2.0 |
| 74-83-9 | Bromomethane | | 1 | <2.0 | U | 0.9 | 2.0 |
| 75-00-3 | Chloroethane | | 1 | <2.0 | UQ | 0.6 | 2.0 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.0 | U | 0.6 | 2.0 |
| 76-13-1 | Freon 113 | | 1 | <2.0 | UQ | 0.6 | 2.0 |
| 67-64-1 | Acetone | | 1 | <13 | U | 3.9 | 13 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <2.0 | U | 0.6 | 2.0 |
| 75-15-0 | Carbon disulfide | | 1 | <10 | U | 2.1 | 10 |
| 75-09-2 | Methylene Chloride | | 1 | <5.1 | U | 0.8 | 5.1 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.0 | U | 0.3 | 2.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.0 | U | 0.7 | 2.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.0 | UQ | 0.5 | 2.0 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.0 | U | 0.6 | 2.0 |
| 78-93-3 | 2-Butanone | | 1 | <10 | U | 2.0 | 10 |
| 67-66-3 | Chloroform | | 1 | <2.0 | UQ | 0.4 | 2.0 |
| 74-97-5 | Bromochloromethane | | 1 | <2.0 | UQ | 0.8 | 2.0 |
| 71-55-6 | 1,1,1-Trichloroethane | ↓ | 1 | <2.0 | UQ | 0.4 | 2.0 |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <2.0 | UQ | 1.6 | 2.0 |
| 110-82-7 | Cyclohexane | UL-SSL | 1 | <2.0 | U | 0.5 | 2.0 |
| 108-87-2 | Methyl cyclohexane | | 1 | <2.0 | U | 0.5 | 2.0 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.0 | UQ | 0.6 | 2.0 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.0 | U | 0.5 | 2.0 |
| 71-43-2 | Benzene | | 1 | <2.0 | U | 0.4 | 2.0 |
| 79-01-6 | Trichloroethene | | 1 | <2.0 | U | 0.5 | 2.0 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.0 | U | 0.6 | 2.0 |
| 75-27-4 | Bromodichloromethane | ↓ | 1 | <2.0 | U | 0.5 | 2.0 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <10 | UJ | 3.7 | 10 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <10 | UQ | 3.5 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | UL-SSL | 1 | <2.0 | U | 0.4 | 2.0 |
| 108-88-3 | Toluene | | 1 | <2.0 | U | 0.5 | 2.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1 | <2.0 | U | 0.4 | 2.0 |
| 79-00-5 | 1,1,2-Trichloroethane | ↓ | 1 | <2.0 | U | 0.6 | 2.0 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05 File ID: 5DH017.D
 Sampled: 04/08/15 10:10 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 15:58
 Solids: 76.58 Preparation: EPA 5030B_MS Initial/Final: 6.41 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene UL-SSL | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.1 | UQ | 1.0 | 4.1 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 50.9 | 49 | 97 | 74 - 133 | |
| Toluene-d8 | 50.9 | 44 | 86 | 85 - 115 | |
| 4-Bromofluorobenzene | 50.9 | 40 | 79 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 812196 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1518090 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1548562 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 805791 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05RE1 File ID: 5DL010.D
 Sampled: 04/08/15 10:10 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 13:10
 Solids: 76.58 Preparation: EPA 5030B_MS Initial/Final: 5.97 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane Exclude-RE | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 74-87-3 | Chloromethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |
| 75-01-4 | Vinyl chloride | 1 | <2.2 | UQ | 0.5 | 2.2 | 5.5 |
| 74-83-9 | Bromomethane | 1 | <2.2 | UQ | 1.0 | 2.2 | 5.5 |
| 75-00-3 | Chloroethane | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 76-13-1 | Freon 113 | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 67-64-1 | Acetone | 1 | 29 | Q | 4.2 | 14 | 27 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 75-15-0 | Carbon disulfide | 1 | <11 | UQ | 2.3 | 11 | 27 |
| 75-09-2 | Methylene Chloride | 1 | <5.5 | UQ | 0.9 | 5.5 | 27 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.2 | U | 0.3 | 2.2 | 5.5 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.2 | UQ | 0.8 | 2.2 | 5.5 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 78-93-3 | 2-Butanone | 1 | <11 | U | 2.2 | 11 | 27 |
| 67-66-3 | Chloroform | 1 | <2.2 | UQ | 0.5 | 2.2 | 5.5 |
| 74-97-5 | Bromochloromethane | 1 | <2.2 | UQ | 0.8 | 2.2 | 5.5 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.2 | UQ | 0.4 | 2.2 | 5.5 |
| 79-20-9 | Methyl acetate | 1 | <2.2 | U | 1.7 | 2.2 | 5.5 |
| 110-82-7 | Cyclohexane | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.2 | UQ | 0.6 | 2.2 | 5.5 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 71-43-2 | Benzene | 1 | <2.2 | U | 0.4 | 2.2 | 5.5 |
| 79-01-6 | Trichloroethene | 1 | <2.2 | UQ | 0.5 | 2.2 | 5.5 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-27-4 | Bromodichloromethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <11 | U | 3.9 | 11 | 27 |
| 591-78-6 | 2-Hexanone | 1 | <11 | UQ | 3.7 | 11 | 27 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 108-88-3 | Toluene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.2 | U | 0.7 | 2.2 | 5.5 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS03-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-05RE1 File ID: 5DL010.D

Sampled: 04/08/15 10:10 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 13:10

Solids: 76.58 Preparation: EPA 5030B_MS Initial/Final: 5.97 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 124-48-1 | Dibromochloromethane | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.2 | UQ | 0.7 | 2.2 | 5.5 |
| 108-90-7 | Chlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 100-41-4 | Ethylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.4 | U | 1.1 | 4.4 | 11 |
| 95-47-6 | o-Xylene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 75-25-2 | Bromoform | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 100-42-5 | Styrene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 98-82-8 | Isopropylbenzene | 1 | <2.2 | U | 0.6 | 2.2 | 5.5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.2 | U | 0.9 | 2.2 | 5.5 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.2 | U | 0.5 | 2.2 | 5.5 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.2 | UQ | 0.9 | 2.2 | 5.5 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.2 | U | 1.0 | 2.2 | 5.5 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 54.7 | 60 | 110 | 74 - 133 | |
| Toluene-d8 | 54.7 | 48 | 87 | 85 - 115 | |
| 4-Bromofluorobenzene | 54.7 | 37 | 67 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 351677 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 726150 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 718884 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 295102 | 18.59 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06 File ID: 5DH018.D
 Sampled: 04/08/15 10:15 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 16:29
 Solids: 84.82 Preparation: EPA 5030B_MS Initial/Final: 6.12 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane UL-SSL | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 74-87-3 | Chloromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 75-01-4 | Vinyl chloride | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 74-83-9 | Bromomethane | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |
| 75-00-3 | Chloroethane | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 76-13-1 | Freon 113 | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 |
| 67-64-1 | Acetone | 1 | <12 | U | 3.7 | 12 | 24 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 75-15-0 | Carbon disulfide | 1 | <9.6 | U | 2.0 | 9.6 | 24 |
| 75-09-2 | Methylene Chloride | 1 | <4.8 | UQ | 0.8 | 4.8 | 24 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.9 | U | 0.3 | 1.9 | 4.8 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 78-93-3 | 2-Butanone | 1 | <9.6 | U | 1.9 | 9.6 | 24 |
| 67-66-3 | Chloroform | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.8 |
| 74-97-5 | Bromochloromethane | 1 | <1.9 | UQ | 0.7 | 1.9 | 4.8 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.9 | UQ | 0.3 | 1.9 | 4.8 |
| 79-20-9 | Methyl acetate UJ-2S | 1 | <1.9 | UQ | 1.5 | 1.9 | 4.8 |
| 110-82-7 | Cyclohexane UL-SSL | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-87-2 | Methyl cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 71-43-2 | Benzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 79-01-6 | Trichloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-27-4 | Bromodichloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-10-1 | 4-Methyl-2-pentanone UJ-2S | 1 | <9.6 | U | 3.5 | 9.6 | 24 |
| 591-78-6 | 2-Hexanone UJ-CCL | 1 | <9.6 | UQ | 3.3 | 9.6 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene UL-SSL | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 108-88-3 | Toluene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06 File ID: 5DH018.D
 Sampled: 04/08/15 10:15 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 16:29
 Solids: 84.82 Preparation: EPA 5030B_MS Initial/Final: 6.12 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---------------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene UL-SSL | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.9 | UQ | 1.0 | 3.9 | 9.6 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 48.2 | 49 | 101 | 74 - 133 | |
| Toluene-d8 | 48.2 | 43 | 89 | 85 - 115 | |
| 4-Bromofluorobenzene | 48.2 | 40 | 83 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 704286 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1351254 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1305794 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 603566 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06RE1 File ID: 5DL011.D

Sampled: 04/08/15 10:15 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 13:41

Solids: 84.82 Preparation: EPA 5030B_MS Initial/Final: 5.86 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|------------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | Exclude-RE | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 74-87-3 | Chloromethane | | 1 | <2.0 | U | 0.7 | 2.0 | 5.0 |
| 75-01-4 | Vinyl chloride | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.0 |
| 74-83-9 | Bromomethane | | 1 | <2.0 | UQ | 0.9 | 2.0 | 5.0 |
| 75-00-3 | Chloroethane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 76-13-1 | Freon 113 | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 67-64-1 | Acetone | | 1 | 7.7 | JQ | 3.8 | 13 | 25 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 75-15-0 | Carbon disulfide | | 1 | <10 | UQ | 2.1 | 10 | 25 |
| 75-09-2 | Methylene Chloride | | 1 | 0.8 | JBQ | 0.8 | 5.0 | 25 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.0 | U | 0.3 | 2.0 | 5.0 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.0 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 78-93-3 | 2-Butanone | | 1 | <10 | U | 2.0 | 10 | 25 |
| 67-66-3 | Chloroform | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.0 |
| 74-97-5 | Bromochloromethane | | 1 | <2.0 | UQ | 0.8 | 2.0 | 5.0 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.0 |
| 79-20-9 | Methyl acetate | | 1 | <2.0 | U | 1.6 | 2.0 | 5.0 |
| 110-82-7 | Cyclohexane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 108-87-2 | Methyl cyclohexane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.0 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 71-43-2 | Benzene | | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 79-01-6 | Trichloroethene | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.0 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | | 1 | <10 | U | 3.6 | 10 | 25 |
| 591-78-6 | 2-Hexanone | | 1 | <10 | UQ | 3.4 | 10 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 108-88-3 | Toluene | | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 79-00-5 | 1,1,2-Trichloroethane | ↓ | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB03-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-06RE1 File ID: 5DL011.D

Sampled: 04/08/15 10:15 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 13:41

Solids: 84.82 Preparation: EPA 5030B_MS Initial/Final: 5.86 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-------------------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.0 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.0 | U | 1.0 | 4.0 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | UQ | 0.9 | 2.0 | 5.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 50.3 | 55 | 109 | 74 - 133 | |
| Toluene-d8 | 50.3 | 43 | 85 | 85 - 115 | |
| 4-Bromofluorobenzene | 50.3 | 38 | 76 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 324503 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 671405 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 769534 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 410561 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS04-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-07 File ID: 5DH019.D
 Sampled: 04/08/15 10:40 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 17:00
 Solids: 88.87 Preparation: EPA 5030B_MS Initial/Final: 6.45 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | UL-SSL | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 74-87-3 | Chloromethane | | 1 | <1.7 | U | 0.6 | 1.7 | 4.4 |
| 75-01-4 | Vinyl chloride | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 74-83-9 | Bromomethane | | 1 | <1.7 | U | 0.8 | 1.7 | 4.4 |
| 75-00-3 | Chloroethane | | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 76-13-1 | Freon 113 | | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 67-64-1 | Acetone | L-SSL | 1 | 23 | Q | 3.3 | 11 | 22 |
| 75-35-4 | 1,1-Dichloroethene | UL-SSL | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-15-0 | Carbon disulfide | UL-SSL | 1 | <8.7 | U | 1.8 | 8.7 | 22 |
| 75-09-2 | Methylene Chloride | L-SSL | 1 | 0.7 | JQ | 0.7 | 4.4 | 22 |
| 1634-04-4 | Methyl-tert-Butyl Ether | UL-SSL | 1 | <1.7 | U | 0.2 | 1.7 | 4.4 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <1.7 | U | 0.6 | 1.7 | 4.4 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 78-93-3 | 2-Butanone | | 1 | <8.7 | U | 1.7 | 8.7 | 22 |
| 67-66-3 | Chloroform | | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 74-97-5 | Bromochloromethane | | 1 | <1.7 | UQ | 0.7 | 1.7 | 4.4 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.7 | UQ | 0.3 | 1.7 | 4.4 |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.7 | UQ | 1.4 | 1.7 | 4.4 |
| 110-82-7 | Cyclohexane | UL-SSL | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 108-87-2 | Methyl cyclohexane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 71-43-2 | Benzene | | 1 | <1.7 | U | 0.3 | 1.7 | 4.4 |
| 79-01-6 | Trichloroethene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <8.7 | U | 3.1 | 8.7 | 22 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <8.7 | UQ | 3.0 | 8.7 | 22 |
| 10061-01-5 | cis-1,3-Dichloropropene | UL-SSL | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 108-88-3 | Toluene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS04-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-07 File ID: 5DH019.D
 Sampled: 04/08/15 10:40 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 17:00
 Solids: 88.87 Preparation: EPA 5030B_MS Initial/Final: 6.45 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|-------------------|-----------------------------|----------|-------------------|------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | UL-SSL | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 124-48-1 | Dibromochloromethane | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 106-93-4 | 1,2-Dibromoethane | | 1 | <1.7 | U | 0.6 | 1.7 | 4.4 |
| 108-90-7 | Chlorobenzene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 100-41-4 | Ethylbenzene | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 108-38-3/106-42-3 | m,p-Xylenes | | 1 | <3.5 | UQ | 0.9 | 3.5 | 8.7 |
| 95-47-6 | o-Xylene | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 75-25-2 | Bromoform | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 100-42-5 | Styrene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 98-82-8 | Isopropylbenzene | | 1 | <1.7 | U | 0.5 | 1.7 | 4.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 120-82-1 | 1,2,4-Trichlorobenzene | | 1 | <1.7 | U | 0.7 | 1.7 | 4.4 |
| 541-73-1 | 1,3-Dichlorobenzene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 106-46-7 | 1,4-Dichlorobenzene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 95-50-1 | 1,2-Dichlorobenzene | | 1 | <1.7 | U | 0.4 | 1.7 | 4.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | | 1 | <1.7 | U | 0.7 | 1.7 | 4.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | | 1 | <1.7 | U | 0.8 | 1.7 | 4.4 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 43.6 | 43 | 99 | 74 - 133 | |
| Toluene-d8 | 43.6 | 38 | 86 | 85 - 115 | |
| 4-Bromofluorobenzene | 43.6 | 32 | 74 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 739498 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1383445 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1324224 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 571682 | 18.59 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS04-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-07RE1 File ID: 5DL012.D

Sampled: 04/08/15 10:40 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 14:12

Solids: 88.87 Preparation: EPA 5030B_MS Initial/Final: 6.1 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 74-87-3 | Chloromethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |
| 75-01-4 | Vinyl chloride | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.6 |
| 74-83-9 | Bromomethane | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.6 |
| 75-00-3 | Chloroethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 76-13-1 | Freon 113 | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 67-64-1 | Acetone | 1 | 12 | JQ | 3.5 | 12 | 23 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 75-15-0 | Carbon disulfide | 1 | <9.2 | UQ | 1.9 | 9.2 | 23 |
| 75-09-2 | Methylene Chloride | 1 | 0.7 | JBO | 0.7 | 4.6 | 23 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.8 | U | 0.2 | 1.8 | 4.6 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 78-93-3 | 2-Butanone | 1 | <9.2 | U | 1.8 | 9.2 | 23 |
| 67-66-3 | Chloroform | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.6 |
| 74-97-5 | Bromochloromethane | 1 | <1.8 | UQ | 0.7 | 1.8 | 4.6 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.8 | UQ | 0.3 | 1.8 | 4.6 |
| 79-20-9 | Methyl acetate | 1 | <1.8 | U | 1.5 | 1.8 | 4.6 |
| 110-82-7 | Cyclohexane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 108-87-2 | Methyl cyclohexane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 71-43-2 | Benzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 79-01-6 | Trichloroethene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.6 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-27-4 | Bromodichloromethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <9.2 | U | 3.3 | 9.2 | 23 |
| 591-78-6 | 2-Hexanone | 1 | <9.2 | UQ | 3.1 | 9.2 | 23 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 108-88-3 | Toluene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.8 | U | 0.6 | 1.8 | 4.6 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS04-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-07RE1 File ID: 5DL012.D

Sampled: 04/08/15 10:40 Prepared: 04/17/15 00:00 Analyzed: 04/17/15 14:12

Solids: 88.87 Preparation: EPA 5030B_MS Initial/Final: 6.1 g / 5 mL

Batch: 5D17022 Sequence: AA33491 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|--|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.6 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.7 | U | 0.9 | 3.7 | 9.2 |
| 95-47-6 | o-Xylene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 75-25-2 | Bromoform | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 100-42-5 | Styrene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | U | 0.5 | 1.8 | 4.6 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | U | 0.4 | 1.8 | 4.6 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.6 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.8 | U | 0.8 | 1.8 | 4.6 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 46.1 | 55 | 119 | 74 - 133 | |
| Toluene-d8 | 46.1 | 45 | 97 | 85 - 115 | |
| 4-Bromofluorobenzene | 46.1 | 37 | 81 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 479861 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 988726 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 990712 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 432219 | 18.59 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB04-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-08 File ID: 5DH020.D
 Sampled: 04/08/15 10:45 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 17:31
 Solids: 89.59 Preparation: EPA 5030B_MS Initial/Final: 5.96 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 | |
| 74-87-3 | Chloromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 | |
| 75-01-4 | Vinyl chloride | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 | |
| 74-83-9 | Bromomethane | 1 | <1.9 | U | 0.8 | 1.9 | 4.7 | |
| 75-00-3 | Chloroethane | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.7 | |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 76-13-1 | Freon 113 | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 | |
| 67-64-1 | Acetone | 1 | 9.8 | JQ | 3.6 | 12 | 23 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 | |
| 75-15-0 | Carbon disulfide | 1 | <9.4 | U | 2.0 | 9.4 | 23 | |
| 75-09-2 | Methylene Chloride | 1 | <4.7 | U | 0.7 | 4.7 | 23 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.9 | U | 0.3 | 1.9 | 4.7 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.7 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 78-93-3 | 2-Butanone | 1 | <9.4 | U | 1.9 | 9.4 | 23 | |
| 67-66-3 | Chloroform | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.7 | |
| 74-97-5 | Bromochloromethane | 1 | <1.9 | UQ | 0.7 | 1.9 | 4.7 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.9 | UQ | 0.3 | 1.9 | 4.7 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.9 | UQ | 1.5 | 1.9 | 4.7 |
| 110-82-7 | Cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.7 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 71-43-2 | Benzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 | |
| 79-01-6 | Trichloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <9.4 | U | 3.4 | 9.4 | 23 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <9.4 | UQ | 3.2 | 9.4 | 23 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 | |
| 108-88-3 | Toluene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SB04-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-08 File ID: 5DH020.D

Sampled: 04/08/15 10:45 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 17:31

Solids: 89.59 Preparation: EPA 5030B_MS Initial/Final: 5.96 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-----------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.7 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 108-38-3/106-42 -3 | m,p-Xylenes | 1 | <3.7 | UQ | 0.9 | 3.7 | 9.4 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.7 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.7 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.7 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.7 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.7 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 46.8 | 54 | 115 | 74 - 133 | |
| Toluene-d8 | 46.8 | 47 | 100 | 85 - 115 | |
| 4-Bromofluorobenzene | 46.8 | 40 | 85 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 624388 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1181152 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1146558 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 493583 | 18.59 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS06-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-09 File ID: 5DH021.D
 Sampled: 04/08/15 11:10 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 18:02
 Solids: 92.29 Preparation: EPA 5030B_MS Initial/Final: 5.6 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 74-87-3 | Chloromethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 75-01-4 | Vinyl chloride | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 74-83-9 | Bromomethane | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 | |
| 75-00-3 | Chloroethane | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 | |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 76-13-1 | Freon 113 | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 | |
| 67-64-1 | Acetone | 1 | 6.3 | JQ | 3.7 | 12 | 24 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 75-15-0 | Carbon disulfide | 1 | <9.7 | U | 2.0 | 9.7 | 24 | |
| 75-09-2 | Methylene Chloride | 1 | 0.8 | JQ | 0.8 | 4.8 | 24 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.9 | U | 0.3 | 1.9 | 4.8 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.9 | U | 0.7 | 1.9 | 4.8 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.9 | UQ | 0.5 | 1.9 | 4.8 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |
| 78-93-3 | 2-Butanone | 1 | <9.7 | U | 1.9 | 9.7 | 24 | |
| 67-66-3 | Chloroform | 1 | <1.9 | UQ | 0.4 | 1.9 | 4.8 | |
| 74-97-5 | Bromochloromethane | 1 | <1.9 | UQ | 0.7 | 1.9 | 4.8 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.9 | UQ | 0.3 | 1.9 | 4.8 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.9 | UQ | 1.5 | 1.9 | 4.8 |
| 110-82-7 | Cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.9 | UQ | 0.6 | 1.9 | 4.8 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 71-43-2 | Benzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 79-01-6 | Trichloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <9.7 | U | 3.5 | 9.7 | 24 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <9.7 | UQ | 3.3 | 9.7 | 24 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 108-88-3 | Toluene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SS06-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-09 File ID: 5DH021.D
 Sampled: 04/08/15 11:10 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 18:02
 Solids: 92.29 Preparation: EPA 5030B_MS Initial/Final: 5.6 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|-------------------|----------------|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 124-48-1 | Dibromochloromethane | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.9 | U | 0.6 | 1.9 | 4.8 |
| 108-90-7 | Chlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-41-4 | Ethylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.9 | U Q | 1.0 | 3.9 | 9.7 |
| 95-47-6 | o-Xylene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 75-25-2 | Bromoform | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 100-42-5 | Styrene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 98-82-8 | Isopropylbenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.9 | U | 0.5 | 1.9 | 4.8 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.9 | U | 0.4 | 1.9 | 4.8 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <1.9 | U | 0.8 | 1.9 | 4.8 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.9 | U | 0.9 | 1.9 | 4.8 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 48.4 | 56 | 116 | 74 - 133 | |
| Toluene-d8 | 48.4 | 48 | 99 | 85 - 115 | |
| 4-Bromofluorobenzene | 48.4 | 41 | 85 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 623784 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1174254 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1132578 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 477900 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB06-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-10 File ID: 5DH022.D
 Sampled: 04/08/15 11:15 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 18:33
 Solids: 89.32 Preparation: EPA 5030B_MS Initial/Final: 5.54 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 | |
| 74-87-3 | Chloromethane | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 | |
| 75-01-4 | Vinyl chloride | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 | |
| 74-83-9 | Bromomethane | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 | |
| 75-00-3 | Chloroethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 | |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 | |
| 76-13-1 | Freon 113 | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 | |
| 67-64-1 | Acetone | 1 | <13 | U | 3.8 | 13 | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 | |
| 75-15-0 | Carbon disulfide | 1 | <10 | U | 2.1 | 10 | 25 | |
| 75-09-2 | Methylene Chloride | 1 | 0.8 | JQ | 0.8 | 5.1 | 25 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.0 | U | 0.3 | 2.0 | 5.1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 | |
| 78-93-3 | 2-Butanone | 1 | <10 | U | 2.0 | 10 | 25 | |
| 67-66-3 | Chloroform | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 | |
| 74-97-5 | Bromochloromethane | 1 | <2.0 | UQ | 0.8 | 2.0 | 5.1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <2.0 | UQ | 1.6 | 2.0 | 5.1 |
| 110-82-7 | Cyclohexane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 | |
| 108-87-2 | Methyl cyclohexane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 | |
| 71-43-2 | Benzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 | |
| 79-01-6 | Trichloroethene | 1 | 1.8 | J | 0.5 | 2.0 | 5.1 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 | |
| 75-27-4 | Bromodichloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <10 | U | 3.6 | 10 | 25 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <10 | UQ | 3.4 | 10 | 25 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 | |
| 108-88-3 | Toluene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SB06-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-10 File ID: 5DH022.D

Sampled: 04/08/15 11:15 Prepared: 04/13/15 00:00 Analyzed: 04/13/15 18:33

Solids: 89.32 Preparation: EPA 5030B_MS Initial/Final: 5.54 g / 5 mL

Batch: 5D13017 Sequence: AA33410 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-----------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 108-38-3/106-42 -3 | m,p-Xylenes | 1 | <4.0 | UQ | 1.0 | 4.0 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 75-25-2 | Bromoform | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 100-42-5 | Styrene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 50.5 | 56 | 111 | 74 - 133 | |
| Toluene-d8 | 50.5 | 49 | 97 | 85 - 115 | |
| 4-Bromofluorobenzene | 50.5 | 44 | 87 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 648740 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1240137 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1226905 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 583055 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-TB01-040815

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-11 File ID: 5DJ021.D
 Sampled: 04/08/15 07:30 Prepared: 04/15/15 00:00 Analyzed: 04/15/15 17:52
 Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 5D15034 Sequence: AA33460 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|--------------|------|------|------|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.0 | U | 0.74 | 1.0 | 2.0 | |
| 74-87-3 | Chloromethane | 1 | <1.0 | U | 0.82 | 1.0 | 2.0 | |
| 75-01-4 | Vinyl chloride | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 | |
| 74-83-9 | Bromomethane | 1 | <1.0 | U | 0.95 | 1.0 | 2.0 | |
| 75-00-3 | Chloroethane | 1 | <1.0 | UQ | 0.98 | 1.0 | 2.0 | |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 | |
| 76-13-1 | Freon 113 | 1 | <1.0 | UQ | 0.73 | 1.0 | 2.0 | |
| 67-64-1 | Acetone | 1 | <12 | UQ | 5.0 | 12 | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 | |
| 75-15-0 | Carbon disulfide | 1 | <5.0 | U | 2.6 | 5.0 | 10 | |
| 75-09-2 | Methylene Chloride | 1 | <5.0 | U | 2.0 | 5.0 | 10 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.0 | U | 0.60 | 1.0 | 2.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.0 | U | 0.62 | 1.0 | 2.0 | |
| 78-93-3 | 2-Butanone | 1 | <12 | U | 4.5 | 12 | 25 | |
| 67-66-3 | Chloroform | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 | |
| 74-97-5 | Bromochloromethane | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.0 | UQ | 0.95 | 1.0 | 2.0 |
| 110-82-7 | Cyclohexane | 1 | <1.0 | U | 0.93 | 1.0 | 2.0 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.0 | U | 0.64 | 1.0 | 2.0 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.0 | U | 0.63 | 1.0 | 2.0 | |
| 71-43-2 | Benzene | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 | |
| 79-01-6 | Trichloroethene | 1 | <1.0 | U | 0.89 | 1.0 | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.0 | U | 0.52 | 1.0 | 2.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <2.5 | U | 0.79 | 2.5 | 5.0 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <2.5 | UQ | 1.4 | 2.5 | 5.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.0 | U | 0.59 | 1.0 | 2.0 | |
| 108-88-3 | Toluene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 | |

ORGANIC ANALYSIS DATA SHEET

YS25-TB01-040815

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-11 File ID: 5DJ021.D
 Sampled: 04/08/15 07:30 Prepared: 04/15/15 00:00 Analyzed: 04/15/15 17:52
 Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 5D15034 Sequence: AA33460 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|--------------|---|------|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 124-48-1 | Dibromochloromethane | 1 | <1.0 | U | 0.44 | 1.0 | 2.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.0 | U | 0.78 | 1.0 | 2.0 |
| 108-90-7 | Chlorobenzene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 100-41-4 | Ethylbenzene | 1 | <1.0 | U | 0.69 | 1.0 | 2.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <2.0 | U | 1.3 | 2.0 | 4.0 |
| 95-47-6 | o-Xylene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-25-2 | Bromoform | 1 | <1.0 | U | 0.75 | 1.0 | 2.0 |
| 100-42-5 | Styrene | 1 | <1.0 | U | 0.61 | 1.0 | 2.0 |
| 98-82-8 | Isopropylbenzene | 1 | <1.0 | U | 0.67 | 1.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.0 | U | 0.54 | 1.0 | 2.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.0 | U | 0.70 | 1.0 | 2.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.0 | U | 0.77 | 1.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <5.0 | U | 0.96 | 5.0 | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.0 | U | 0.86 | 1.0 | 2.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|----------------------------|--------------|-------------|-------|-----------|---|
| Dibromofluoromethane | 50.0 | 59 | 117 | 85 - 115 | * |
| 1,2-Dichloroethane-d4 | 50.0 | 45 | 89 | 70 - 120 | |
| Toluene-d8 | 50.0 | 53 | 105 | 85 - 120 | |
| 4-Bromofluorobenzene | 50.0 | 46 | 92 | 75 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 507607 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 952151 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1030541 | 15.623 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 547025 | 18.582 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS12-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-12 File ID: 5DO009.D

Sampled: 04/08/15 12:30 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 12:12

Solids: 84.81 Preparation: EPA 5030B_MS Initial/Final: 5.22 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.4 | U | 0.7 | 2.4 | 5.9 |
| 74-87-3 | Chloromethane | 1 | <2.4 | U | 0.8 | 2.4 | 5.9 |
| 75-01-4 | Vinyl chloride | 1 | <2.4 | U | 0.5 | 2.4 | 5.9 |
| 74-83-9 | Bromomethane | 1 | <2.4 | U | 1.1 | 2.4 | 5.9 |
| 75-00-3 | Chloroethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.4 | U | 0.6 | 2.4 | 5.9 |
| 76-13-1 | Freon 113 | 1 | <2.4 | UQ | 0.7 | 2.4 | 5.9 |
| 67-64-1 | Acetone | 1 | 19 | JQ | 4.5 | 15 | 29 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.4 | UQ | 0.7 | 2.4 | 5.9 |
| 75-15-0 | Carbon disulfide | 1 | <12 | UQ | 2.5 | 12 | 29 |
| 75-09-2 | Methylene Chloride | 1 | 1.0 | JQ | 0.9 | 5.9 | 29 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.4 | UQ | 0.3 | 2.4 | 5.9 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.4 | UQ | 0.8 | 2.4 | 5.9 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 5.9 |
| 78-93-3 | 2-Butanone | 1 | <12 | UQ | 2.4 | 12 | 29 |
| 67-66-3 | Chloroform | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 74-97-5 | Bromochloromethane | 1 | <2.4 | UQ | 0.9 | 2.4 | 5.9 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.4 | UQ | 0.4 | 2.4 | 5.9 |
| 79-20-9 | Methyl acetate | 1 | <2.4 | UQ | 1.9 | 2.4 | 5.9 |
| 110-82-7 | Cyclohexane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.4 | UQ | 0.7 | 2.4 | 5.9 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 71-43-2 | Benzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 79-01-6 | Trichloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 75-27-4 | Bromodichloromethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <12 | UQ | 4.2 | 12 | 29 |
| 591-78-6 | 2-Hexanone | 1 | <12 | UQ | 4.0 | 12 | 29 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 108-88-3 | Toluene | 1 | 0.5 | JQ | 0.5 | 2.4 | 5.9 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 5.9 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS12-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-12 File ID: 5DO009.D

Sampled: 04/08/15 12:30 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 12:12

Solids: 84.81 Preparation: EPA 5030B_MS Initial/Final: 5.22 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <2.4 | U | 0.6 | 2.4 | 5.9 |
| 124-48-1 | Dibromochloromethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.4 | UQ | 0.8 | 2.4 | 5.9 |
| 108-90-7 | Chlorobenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 100-41-4 | Ethylbenzene | 1 | <2.4 | UQ | 0.7 | 2.4 | 5.9 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.7 | UQ | 1.2 | 4.7 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 75-25-2 | Bromoform | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 100-42-5 | Styrene | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 98-82-8 | Isopropylbenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.4 | UQ | 1.0 | 2.4 | 5.9 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 5.9 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 5.9 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.4 | UQ | 1.0 | 2.4 | 5.9 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.4 | UQ | 1.1 | 2.4 | 5.9 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 56.5 | 58 | 103 | 74 - 133 | |
| Toluene-d8 | 56.5 | 52 | 93 | 85 - 115 | |
| 4-Bromofluorobenzene | 56.5 | 44 | 78 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 509589 | 11.49 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 937776 | 12.197 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 768531 | 15.632 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 262770 | 18.598 | 548927 | 18.606 | * |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS12-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-12RE1 File ID: 5DR007.D
 Sampled: 04/08/15 12:30 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 10:31
 Solids: 84.81 Preparation: EPA 5030B_MS Initial/Final: 6.74 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|--------------|-------------------|------|---------------|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 74-87-3 | Chloromethane | 1 | <1.7 | UQ | 0.6 | 1.7 | 4.4 | |
| 75-01-4 | Vinyl chloride | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 | |
| 74-83-9 | Bromomethane | 1 | <1.7 | UQ | 0.8 | 1.7 | 4.4 | |
| 75-00-3 | Chloroethane | UJ-BD | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 76-13-1 | Freon 113 | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 67-64-1 | Acetone | J-BD | 1 | 18 | JQ | 3.3 | 11 | 22 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 75-15-0 | Carbon disulfide | 1 | <8.7 | UQ | 1.8 | 8.7 | 22 | |
| 75-09-2 | Methylene Chloride | J-CCH | 1 | 1.0 | JQ | 0.7 | 4.4 | 22 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.7 | UQ | 0.2 | 1.7 | 4.4 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.7 | UQ | 0.6 | 1.7 | 4.4 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 78-93-3 | 2-Butanone | UJ-2S | 1 | <8.7 | UQ | 1.7 | 8.7 | 22 |
| 67-66-3 | Chloroform | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 | |
| 74-97-5 | Bromochloromethane | 1 | <1.7 | UQ | 0.7 | 1.7 | 4.4 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.7 | UQ | 0.3 | 1.7 | 4.4 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.7 | UQ | 1.4 | 1.7 | 4.4 |
| 110-82-7 | Cyclohexane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 71-43-2 | Benzene | 1 | <1.7 | UQ | 0.3 | 1.7 | 4.4 | |
| 79-01-6 | Trichloroethene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <8.7 | UQ | 3.1 | 8.7 | 22 |
| 591-78-6 | 2-Hexanone | UJ-2S | 1 | <8.7 | UQ | 3.0 | 8.7 | 22 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 | |
| 108-88-3 | Toluene | 1 | 0.4 | JQ | 0.4 | 1.7 | 4.4 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SS12-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-12RE1 File ID: 5DR007.D

Sampled: 04/08/15 12:30 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 10:31

Solids: 84.81 Preparation: EPA 5030B_MS Initial/Final: 6.74 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 124-48-1 | Dibromochloromethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.7 | UQ | 0.6 | 1.7 | 4.4 |
| 108-90-7 | Chlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 100-41-4 | Ethylbenzene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.5 | UQ | 0.9 | 3.5 | 8.7 |
| 95-47-6 | o-Xylene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 75-25-2 | Bromoform | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 100-42-5 | Styrene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 98-82-8 | Isopropylbenzene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.7 | UQ | 0.7 | 1.7 | 4.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | UJ-2S | <1.7 | UQ | 0.7 | 1.7 | 4.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.7 | UQ | 0.8 | 1.7 | 4.4 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 43.7 | 43 | 98 | 74 - 133 | |
| Toluene-d8 | 43.7 | 48 | 110 | 85 - 115 | |
| 4-Bromofluorobenzene | 43.7 | 46 | 106 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 673332 | 11.482 | 709989 | 11.482 | |
| 1,4-Difluorobenzene | 1153608 | 12.181 | 1220746 | 12.181 | |
| Chlorobenzene-d5 | 1114159 | 15.623 | 1261311 | 15.624 | |
| 1,4-Dichlorobenzene-d4 | 531126 | 18.59 | 652044 | 18.59 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-13 File ID: 5DO010.D
 Sampled: 04/08/15 12:40 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 12:43
 Solids: 81.94 Preparation: EPA 5030B_MS Initial/Final: 5.42 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.4 | U | 0.8 | 2.4 | 6.1 |
| 74-87-3 | Chloromethane | 1 | <2.4 | U | 0.8 | 2.4 | 6.1 |
| 75-01-4 | Vinyl chloride | 1 | <2.4 | U | 0.5 | 2.4 | 6.1 |
| 74-83-9 | Bromomethane | 1 | <2.4 | U | 1.1 | 2.4 | 6.1 |
| 75-00-3 | Chloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.4 | U | 0.7 | 2.4 | 6.1 |
| 76-13-1 | Freon 113 | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 67-64-1 | Acetone | 1 | 13 | JQ | 4.6 | 15 | 31 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 |
| 75-15-0 | Carbon disulfide | 1 | <12 | UQ | 2.6 | 12 | 31 |
| 75-09-2 | Methylene Chloride | 1 | <6.1 | UQ | 1.0 | 6.1 | 31 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.4 | UQ | 0.3 | 2.4 | 6.1 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 78-93-3 | 2-Butanone | 1 | <12 | UQ | 2.4 | 12 | 31 |
| 67-66-3 | Chloroform | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 74-97-5 | Bromochloromethane | 1 | <2.4 | UQ | 0.9 | 2.4 | 6.1 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.4 | UQ | 0.4 | 2.4 | 6.1 |
| 79-20-9 | Methyl acetate | 1 | <2.4 | UQ | 2.0 | 2.4 | 6.1 |
| 110-82-7 | Cyclohexane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 71-43-2 | Benzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 79-01-6 | Trichloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 75-27-4 | Bromodichloromethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <12 | UQ | 4.4 | 12 | 31 |
| 591-78-6 | 2-Hexanone | 1 | <12 | UQ | 4.1 | 12 | 31 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 108-88-3 | Toluene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-13 File ID: 5DO010.D
 Sampled: 04/08/15 12:40 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 12:43
 Solids: 81.94 Preparation: EPA 5030B_MS Initial/Final: 5.42 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <2.4 | U | 0.6 | 2.4 | 6.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.9 | UQ | 1.2 | 4.9 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 75-25-2 | Bromoform | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 100-42-5 | Styrene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.4 | UQ | 1.0 | 2.4 | 6.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.4 | UQ | 1.0 | 2.4 | 6.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.4 | UQ | 1.1 | 2.4 | 6.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 56.3 | 57 | 102 | 74 - 133 | |
| Toluene-d8 | 56.3 | 49 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 56.3 | 43 | 77 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 532672 | 11.49 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 997737 | 12.197 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 929075 | 15.632 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 408446 | 18.598 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-13RE1 File ID: 5DR008.D

Sampled: 04/08/15 12:40 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 11:02

Solids: 81.94 Preparation: EPA 5030B_MS Initial/Final: 4.53 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|-------------------|------|-----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 | |
| 74-87-3 | Chloromethane | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 | |
| 75-01-4 | Vinyl chloride | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 | |
| 74-83-9 | Bromomethane | 1 | <2.4 | UQ | 1.1 | 2.4 | 6.1 | |
| 75-00-3 | Chloroethane | UJ-BD | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 | |
| 76-13-1 | Freon 113 | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 | |
| 67-64-1 | Acetone | J-BD | 1 | 11 | JQ | 4.6 | 15 | 31 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 | |
| 75-15-0 | Carbon disulfide | 1 | <12 | UQ | 2.6 | 12 | 31 | |
| 75-09-2 | Methylene Chloride | J-CCH | 1 | 26 | JQ | 1.0 | 6.1 | 31 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.4 | UQ | 0.3 | 2.4 | 6.1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 | |
| 78-93-3 | 2-Butanone | UJ-2S | 1 | <12 | UQ | 2.4 | 12 | 31 |
| 67-66-3 | Chloroform | 1 | 0.8 | JQ | 0.5 | 2.4 | 6.1 | |
| 74-97-5 | Bromochloromethane | 1 | <2.4 | UQ | 0.9 | 2.4 | 6.1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.4 | UQ | 0.4 | 2.4 | 6.1 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <2.4 | UQ | 2.0 | 2.4 | 6.1 |
| 110-82-7 | Cyclohexane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 108-87-2 | Methyl cyclohexane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 71-43-2 | Benzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 | |
| 79-01-6 | Trichloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 | |
| 75-27-4 | Bromodichloromethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <12 | UQ | 4.4 | 12 | 31 |
| 591-78-6 | 2-Hexanone | UJ-2S | 1 | <12 | UQ | 4.1 | 12 | 31 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 | |
| 108-88-3 | Toluene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SB12-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-13RE1 File ID: 5DR008.D

Sampled: 04/08/15 12:40 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 11:02

Solids: 81.94 Preparation: EPA 5030B_MS Initial/Final: 4.53 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.4 | UQ | 0.8 | 2.4 | 6.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.9 | UQ | 1.2 | 4.9 | 12 |
| 95-47-6 | o-Xylene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 75-25-2 | Bromoform | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 100-42-5 | Styrene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.4 | UQ | 0.7 | 2.4 | 6.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.4 | UQ | 1.0 | 2.4 | 6.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.4 | UQ | 0.6 | 2.4 | 6.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.4 | UQ | 0.5 | 2.4 | 6.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | UJ-2S | <2.4 | UQ | 1.0 | 2.4 | 6.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.4 | UQ | 1.1 | 2.4 | 6.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 67.4 | 60 | 90 | 74 - 133 | |
| Toluene-d8 | 67.4 | 61 | 91 | 85 - 115 | |
| 4-Bromofluorobenzene | 67.4 | 58 | 86 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 729384 | 11.482 | 709989 | 11.482 | |
| 1,4-Difluorobenzene | 1320916 | 12.181 | 1220746 | 12.181 | |
| Chlorobenzene-d5 | 1265896 | 15.624 | 1261311 | 15.624 | |
| 1,4-Dichlorobenzene-d4 | 571852 | 18.582 | 652044 | 18.59 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14 File ID: 5DJ022.D
 Sampled: 04/08/15 13:45 Prepared: 04/15/15 00:00 Analyzed: 04/15/15 18:23
 Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 5D15034 Sequence: AA33460 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ | |
|------------|---------------------------|----------|--------------|------|------|------|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.0 | U | 0.74 | 1.0 | 2.0 | |
| 74-87-3 | Chloromethane | 1 | <1.0 | U | 0.82 | 1.0 | 2.0 | |
| 75-01-4 | Vinyl chloride | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 | |
| 74-83-9 | Bromomethane | 1 | <1.0 | U | 0.95 | 1.0 | 2.0 | |
| 75-00-3 | Chloroethane | 1 | <1.0 | UQ | 0.98 | 1.0 | 2.0 | |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 | |
| 76-13-1 | Freon 113 | 1 | <1.0 | UQ | 0.73 | 1.0 | 2.0 | |
| 67-64-1 | Acetone | 1 | <12 | UQ | 5.0 | 12 | 25 | |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 | |
| 75-15-0 | Carbon disulfide | 1 | <5.0 | U | 2.6 | 5.0 | 10 | |
| 75-09-2 | Methylene Chloride | 1 | <5.0 | U | 2.0 | 5.0 | 10 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.0 | U | 0.60 | 1.0 | 2.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.0 | U | 0.62 | 1.0 | 2.0 | |
| 78-93-3 | 2-Butanone | 1 | <12 | U | 4.5 | 12 | 25 | |
| 67-66-3 | Chloroform | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 | |
| 74-97-5 | Bromochloromethane | 1 | <1.0 | UQ | 0.94 | 1.0 | 2.0 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.0 | UQ | 0.95 | 1.0 | 2.0 |
| 110-82-7 | Cyclohexane | 1 | <1.0 | U | 0.93 | 1.0 | 2.0 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.0 | U | 0.64 | 1.0 | 2.0 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.0 | U | 0.94 | 1.0 | 2.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.0 | U | 0.63 | 1.0 | 2.0 | |
| 71-43-2 | Benzene | 1 | <1.0 | U | 0.71 | 1.0 | 2.0 | |
| 79-01-6 | Trichloroethene | 1 | <1.0 | U | 0.89 | 1.0 | 2.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.0 | U | 0.80 | 1.0 | 2.0 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.0 | U | 0.52 | 1.0 | 2.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <2.5 | U | 0.79 | 2.5 | 5.0 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <2.5 | UQ | 1.4 | 2.5 | 5.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.0 | U | 0.59 | 1.0 | 2.0 | |
| 108-88-3 | Toluene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 | |

ORGANIC ANALYSIS DATA SHEET

YS25-EB040815

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Water Laboratory ID: A501753-14 File ID: 5DJ022.D
 Sampled: 04/08/15 13:45 Prepared: 04/15/15 00:00 Analyzed: 04/15/15 18:23
 Solids: Preparation: EPA 5030B_MS Initial/Final: 5 mL / 5 mL

Batch: 5D15034 Sequence: AA33460 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/L) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|--------------|---|------|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 124-48-1 | Dibromochloromethane | 1 | <1.0 | U | 0.44 | 1.0 | 2.0 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.0 | U | 0.78 | 1.0 | 2.0 |
| 108-90-7 | Chlorobenzene | 1 | <1.0 | U | 0.72 | 1.0 | 2.0 |
| 100-41-4 | Ethylbenzene | 1 | <1.0 | U | 0.69 | 1.0 | 2.0 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <2.0 | U | 1.3 | 2.0 | 4.0 |
| 95-47-6 | o-Xylene | 1 | <1.0 | U | 0.53 | 1.0 | 2.0 |
| 75-25-2 | Bromoform | 1 | <1.0 | U | 0.75 | 1.0 | 2.0 |
| 100-42-5 | Styrene | 1 | <1.0 | U | 0.61 | 1.0 | 2.0 |
| 98-82-8 | Isopropylbenzene | 1 | <1.0 | U | 0.67 | 1.0 | 2.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.0 | U | 0.54 | 1.0 | 2.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.0 | U | 0.70 | 1.0 | 2.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.0 | U | 0.77 | 1.0 | 2.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.0 | U | 0.76 | 1.0 | 2.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.0 | U | 0.73 | 1.0 | 2.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <5.0 | U | 0.96 | 5.0 | 10 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.0 | U | 0.86 | 1.0 | 2.0 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/L) | CONC (ug/L) | % REC | QC LIMITS | Q |
|----------------------------|--------------|-------------|-------|-----------|---|
| Dibromofluoromethane | 50.0 | 62 | 123 | 85 - 115 | * |
| 1,2-Dichloroethane-d4 | 50.0 | 46 | 93 | 70 - 120 | |
| Toluene-d8 | 50.0 | 55 | 109 | 85 - 120 | |
| 4-Bromofluorobenzene | 50.0 | 47 | 94 | 75 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|--------|--------|----------|--------|---|
| Pentafluorobenzene | 471098 | 11.482 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 900394 | 12.181 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 975431 | 15.615 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 536238 | 18.59 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-15 File ID: 5DO011.D
 Sampled: 04/08/15 12:45 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 13:15
 Solids: 82.74 Preparation: EPA 5030B_MS Initial/Final: 5.92 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|------------|-------------------|------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | Exclude-RE | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 74-87-3 | Chloromethane | | 1 | <2.0 | U | 0.7 | 2.0 | 5.1 |
| 75-01-4 | Vinyl chloride | | 1 | <2.0 | U | 0.4 | 2.0 | 5.1 |
| 74-83-9 | Bromomethane | | 1 | <2.0 | U | 0.9 | 2.0 | 5.1 |
| 75-00-3 | Chloroethane | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <2.0 | U | 0.6 | 2.0 | 5.1 |
| 76-13-1 | Freon 113 | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 67-64-1 | Acetone | | 1 | 15 | IQ | 3.9 | 13 | 26 |
| 75-35-4 | 1,1-Dichloroethene | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 75-15-0 | Carbon disulfide | | 1 | <10 | UQ | 2.1 | 10 | 26 |
| 75-09-2 | Methylene Chloride | | 1 | <5.1 | UQ | 0.8 | 5.1 | 26 |
| 1634-04-4 | Methyl-tert-Butyl Ether | | 1 | <2.0 | UQ | 0.3 | 2.0 | 5.1 |
| 156-60-5 | trans-1,2-Dichloroethene | | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.1 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 78-93-3 | 2-Butanone | | 1 | <10 | UQ | 2.0 | 10 | 26 |
| 67-66-3 | Chloroform | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 74-97-5 | Bromochloromethane | | 1 | <2.0 | UQ | 0.8 | 2.0 | 5.1 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 79-20-9 | Methyl acetate | | 1 | <2.0 | UQ | 1.6 | 2.0 | 5.1 |
| 110-82-7 | Cyclohexane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 108-87-2 | Methyl cyclohexane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 71-43-2 | Benzene | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 79-01-6 | Trichloroethene | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 75-27-4 | Bromodichloromethane | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 108-10-1 | 4-Methyl-2-pentanone | | 1 | <10 | UQ | 3.7 | 10 | 26 |
| 591-78-6 | 2-Hexanone | | 1 | <10 | UQ | 3.5 | 10 | 26 |
| 10061-01-5 | cis-1,3-Dichloropropene | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 108-88-3 | Toluene | | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 79-00-5 | 1,1,2-Trichloroethane | | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |

ORGANIC ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-15 File ID: 5DO011.D

Sampled: 04/08/15 12:45 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 13:15

Solids: 82.74 Preparation: EPA 5030B_MS Initial/Final: 5.92 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <2.0 | U | 0.5 | 2.0 | 5.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.0 | UQ | 0.7 | 2.0 | 5.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.1 | UQ | 1.0 | 4.1 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 75-25-2 | Bromoform | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 100-42-5 | Styrene | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.0 | UQ | 0.6 | 2.0 | 5.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.0 | UQ | 0.9 | 2.0 | 5.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.0 | UQ | 0.5 | 2.0 | 5.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.0 | UQ | 0.4 | 2.0 | 5.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.0 | UQ | 0.9 | 2.0 | 5.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.0 | UQ | 0.9 | 2.0 | 5.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 51.0 | 50 | 99 | 74 - 133 | |
| Toluene-d8 | 51.0 | 46 | 90 | 85 - 115 | |
| 4-Bromofluorobenzene | 51.0 | 41 | 81 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 577177 | 11.49 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1074941 | 12.197 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 1041478 | 15.632 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 517275 | 18.606 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-15RE1 File ID: 5DR009.D

Sampled: 04/08/15 12:45 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 11:33

Solids: 82.74 Preparation: EPA 5030B_MS Initial/Final: 7.28 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ | |
|------------|---------------------------|--------------|-------------------|------|---------------|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 74-87-3 | Chloromethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 75-01-4 | Vinyl chloride | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 74-83-9 | Bromomethane | 1 | <1.7 | UQ | 0.7 | 1.7 | 4.2 | |
| 75-00-3 | Chloroethane | UJ-BD | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 75-69-4 | Trichlorofluoromethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 76-13-1 | Freon 113 | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 67-64-1 | Acetone | B-MBL | 1 | 16 | UQ | 3.2 | 10 | 21 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 75-15-0 | Carbon disulfide | 1 | <8.3 | UQ | 1.7 | 8.3 | 21 | |
| 75-09-2 | Methylene Chloride | 1 | <4.2 | UQ | 0.6 | 4.2 | 21 | |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <1.7 | UQ | 0.2 | 1.7 | 4.2 | |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <1.7 | UQ | 0.6 | 1.7 | 4.2 | |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 75-34-3 | 1,1-Dichloroethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 78-93-3 | 2-Butanone | UJ-2S | 1 | <8.3 | UQ | 1.7 | 8.3 | 21 |
| 67-66-3 | Chloroform | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 74-97-5 | Bromochloromethane | 1 | <1.7 | UQ | 0.6 | 1.7 | 4.2 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <1.7 | UQ | 0.3 | 1.7 | 4.2 | |
| 79-20-9 | Methyl acetate | UJ-2S | 1 | <1.7 | UQ | 1.3 | 1.7 | 4.2 |
| 110-82-7 | Cyclohexane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 108-87-2 | Methyl cyclohexane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 56-23-5 | Carbon Tetrachloride | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 107-06-2 | 1,2-Dichloroethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 71-43-2 | Benzene | 1 | <1.7 | UQ | 0.3 | 1.7 | 4.2 | |
| 79-01-6 | Trichloroethene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 78-87-5 | 1,2-Dichloropropane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |
| 75-27-4 | Bromodichloromethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 108-10-1 | 4-Methyl-2-pentanone | UJ-2S | 1 | <8.3 | UQ | 3.0 | 8.3 | 21 |
| 591-78-6 | 2-Hexanone | UJ-2S | 1 | <8.3 | UQ | 2.8 | 8.3 | 21 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <1.7 | UQ | 0.3 | 1.7 | 4.2 | |
| 108-88-3 | Toluene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 | |

ORGANIC ANALYSIS DATA SHEET

YS25-SB12P-0H02-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-15RE1 File ID: 5DR009.D
 Sampled: 04/08/15 12:45 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 11:33
 Solids: 82.74 Preparation: EPA 5030B_MS Initial/Final: 7.28 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|-----------------------------|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 124-48-1 | Dibromochloromethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.7 | UQ | 0.6 | 1.7 | 4.2 |
| 108-90-7 | Chlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 100-41-4 | Ethylbenzene | 1 | <1.7 | UQ | 0.5 | 1.7 | 4.2 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.3 | UQ | 0.8 | 3.3 | 8.3 |
| 95-47-6 | o-Xylene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 75-25-2 | Bromoform | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 100-42-5 | Styrene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 98-82-8 | Isopropylbenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.7 | UQ | 0.7 | 1.7 | 4.2 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.7 | UQ | 0.4 | 1.7 | 4.2 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | UJ-2S | <1.7 | UQ | 0.7 | 1.7 | 4.2 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <1.7 | UQ | 0.8 | 1.7 | 4.2 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 41.5 | 37 | 90 | 74 - 133 | |
| Toluene-d8 | 41.5 | 38 | 90 | 85 - 115 | |
| 4-Bromofluorobenzene | 41.5 | 38 | 92 | 85 - 120 | |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 807537 | 11.482 | 709989 | 11.482 | |
| 1,4-Difluorobenzene | 1474563 | 12.181 | 1220746 | 12.181 | |
| Chlorobenzene-d5 | 1464320 | 15.624 | 1261311 | 15.624 | |
| 1,4-Dichlorobenzene-d4 | 746440 | 18.59 | 652044 | 18.59 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS12P-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-16 File ID: 5DO012.D
 Sampled: 04/08/15 12:35 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 13:46
 Solids: 82.46 Preparation: EPA 5030B_MS Initial/Final: 6.88 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|------|----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | UL-SSL | 1 | <1.8 | U | 0.5 | 1.8 |
| 74-87-3 | Chloromethane | | 1 | <1.8 | U | 0.6 | 1.8 |
| 75-01-4 | Vinyl chloride | | 1 | <1.8 | U | 0.4 | 1.8 |
| 74-83-9 | Bromomethane | | 1 | <1.8 | U | 0.8 | 1.8 |
| 75-00-3 | Chloroethane | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 75-69-4 | Trichlorofluoromethane | | 1 | <1.8 | U | 0.5 | 1.8 |
| 76-13-1 | Freon 113 | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 67-64-1 | Acetone | L-SSL | 1 | 30 | Q | 3.3 | 11 |
| 75-35-4 | 1,1-Dichloroethene | UL-SSL | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 75-15-0 | Carbon disulfide | UL-SSL | 1 | <8.8 | UQ | 1.9 | 8.8 |
| 75-09-2 | Methylene Chloride | L-SSL | 1 | 0.9 | JQ | 0.7 | 4.4 |
| 1634-04-4 | Methyl-tert-Butyl Ether | UJ-CCL | 1 | <1.8 | UQ | 0.2 | 1.8 |
| 156-60-5 | trans-1,2-Dichloroethene | UL-SSL | 1 | <1.8 | UQ | 0.6 | 1.8 |
| 156-59-2 | cis-1,2-Dichloroethene | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 75-34-3 | 1,1-Dichloroethane | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 78-93-3 | 2-Butanone | UJ-CCL | 1 | <8.8 | UQ | 1.8 | 8.8 |
| 67-66-3 | Chloroform | UL-SSL | 1 | <1.8 | UQ | 0.4 | 1.8 |
| 74-97-5 | Bromochloromethane | | 1 | <1.8 | UQ | 0.7 | 1.8 |
| 71-55-6 | 1,1,1-Trichloroethane | | 1 | <1.8 | UQ | 0.3 | 1.8 |
| 79-20-9 | Methyl acetate | | 1 | <1.8 | UQ | 1.4 | 1.8 |
| 110-82-7 | Cyclohexane | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 108-87-2 | Methyl cyclohexane | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 56-23-5 | Carbon Tetrachloride | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 107-06-2 | 1,2-Dichloroethane | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 71-43-2 | Benzene | | 1 | <1.8 | UQ | 0.4 | 1.8 |
| 79-01-6 | Trichloroethene | | 1 | <1.8 | UQ | 0.4 | 1.8 |
| 78-87-5 | 1,2-Dichloropropane | | 1 | <1.8 | UQ | 0.5 | 1.8 |
| 75-27-4 | Bromodichloromethane | | 1 | <1.8 | UQ | 0.4 | 1.8 |
| 108-10-1 | 4-Methyl-2-pentanone | | 1 | <8.8 | UQ | 3.2 | 8.8 |
| 591-78-6 | 2-Hexanone | UJ-CCL | 1 | <8.8 | UQ | 3.0 | 8.8 |
| 10061-01-5 | cis-1,3-Dichloropropene | UL-SSL | 1 | <1.8 | UQ | 0.4 | 1.8 |
| 108-88-3 | Toluene | L-SSL | 1 | 0.4 | JQ | 0.4 | 1.8 |
| 10061-02-6 | trans-1,3-Dichloropropene | UL-SSL | 1 | <1.8 | UQ | 0.4 | 1.8 |
| 79-00-5 | 1,1,2-Trichloroethane | UL-SSL | 1 | <1.8 | UQ | 0.5 | 1.8 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS12P-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-16 File ID: 5DO012.D
 Sampled: 04/08/15 12:35 Prepared: 04/20/15 00:00 Analyzed: 04/20/15 13:46
 Solids: 82.46 Preparation: EPA 5030B_MS Initial/Final: 6.88 g / 5 mL

Batch: 5D20018 Sequence: AA33509 Calibration: 1503091 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|---|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene UL-SSL | 1 | <1.8 | U | 0.4 | 1.8 | 4.4 |
| 124-48-1 | Dibromochloromethane | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <1.8 | UQ | 0.6 | 1.8 | 4.4 |
| 108-90-7 | Chlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 100-41-4 | Ethylbenzene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <3.5 | UQ | 0.9 | 3.5 | 8.8 |
| 95-47-6 | o-Xylene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 75-25-2 | Bromoform | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 100-42-5 | Styrene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 98-82-8 | Isopropylbenzene | 1 | <1.8 | UQ | 0.5 | 1.8 | 4.4 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <1.8 | UQ | 0.7 | 1.8 | 4.4 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <1.8 | UQ | 0.4 | 1.8 | 4.4 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane UJ-CCL | 1 | <1.8 | UQ | 0.7 | 1.8 | 4.4 |
| 87-61-6 | 1,2,3-Trichlorobenzene UL-SSL | 1 | <1.8 | UQ | 0.8 | 1.8 | 4.4 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 44.1 | 44 | 101 | 74 - 133 | |
| Toluene-d8 | 44.1 | 37 | 85 | 85 - 115 | |
| 4-Bromofluorobenzene | 44.1 | 33 | 76 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 520960 | 11.499 | 646118 | 11.491 | |
| 1,4-Difluorobenzene | 1001779 | 12.197 | 1132565 | 12.189 | |
| Chlorobenzene-d5 | 904615 | 15.632 | 1071316 | 15.632 | |
| 1,4-Dichlorobenzene-d4 | 385707 | 18.598 | 548927 | 18.606 | |

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

YS25-SS12P-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-16RE1 File ID: 5DR010.D
 Sampled: 04/08/15 12:35 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 12:04
 Solids: 82.46 Preparation: EPA 5030B_MS Initial/Final: 5.91 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|------------|---------------------------|----------|-------------------|----|-----|-----|-----|
| 75-71-8 | Dichlorodifluoromethane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 74-87-3 | Chloromethane | 1 | <2.1 | UQ | 0.7 | 2.1 | 5.1 |
| 75-01-4 | Vinyl chloride | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 74-83-9 | Bromomethane | 1 | <2.1 | UQ | 0.9 | 2.1 | 5.1 |
| 75-00-3 | Chloroethane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 75-69-4 | Trichlorofluoromethane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 76-13-1 | Freon 113 | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 67-64-1 | Acetone | 1 | 11 | JQ | 3.9 | 13 | 26 |
| 75-35-4 | 1,1-Dichloroethene | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 75-15-0 | Carbon disulfide | 1 | <10 | UQ | 2.2 | 10 | 26 |
| 75-09-2 | Methylene Chloride | 1 | 1.2 | JQ | 0.8 | 5.1 | 26 |
| 1634-04-4 | Methyl-tert-Butyl Ether | 1 | <2.1 | UQ | 0.3 | 2.1 | 5.1 |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | <2.1 | UQ | 0.7 | 2.1 | 5.1 |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 75-34-3 | 1,1-Dichloroethane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 78-93-3 | 2-Butanone | 1 | <10 | UQ | 2.1 | 10 | 26 |
| 67-66-3 | Chloroform | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.1 |
| 74-97-5 | Bromochloromethane | 1 | <2.1 | UQ | 0.8 | 2.1 | 5.1 |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.1 |
| 79-20-9 | Methyl acetate | 1 | <2.1 | UQ | 1.6 | 2.1 | 5.1 |
| 110-82-7 | Cyclohexane | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 108-87-2 | Methyl cyclohexane | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 56-23-5 | Carbon Tetrachloride | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 107-06-2 | 1,2-Dichloroethane | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 71-43-2 | Benzene | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.1 |
| 79-01-6 | Trichloroethene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 78-87-5 | 1,2-Dichloropropane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 75-27-4 | Bromodichloromethane | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | <10 | UQ | 3.7 | 10 | 26 |
| 591-78-6 | 2-Hexanone | 1 | <10 | UQ | 3.5 | 10 | 26 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.1 |
| 108-88-3 | Toluene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | <2.1 | UQ | 0.4 | 2.1 | 5.1 |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |

ORGANIC ANALYSIS DATA SHEET

YS25-SS12P-0415

EPA 8260B

Laboratory: ENCO Orlando SDG: A501753-CTOWE19
 Client: CH2M Hill, Inc. (CH025) Project: CTO-WE19 Yorktown Site 25-SOILS

Matrix: Soil Laboratory ID: A501753-16RE1 File ID: 5DR010.D

Sampled: 04/08/15 12:35 Prepared: 04/23/15 00:00 Analyzed: 04/23/15 12:04

Solids: 82.46 Preparation: EPA 5030B_MS Initial/Final: 5.91 g / 5 mL

Batch: 5D23014 Sequence: AA33566 Calibration: 1504094 Instrument: OVGCMS5

| CAS NO. | COMPOUND | DILUTION | CONC. (ug/kg dry) | Q | DL | LOD | LOQ |
|-------------------|--|----------|-------------------|----|-----|-----|-----|
| 127-18-4 | Tetrachloroethene Exclude-RE | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 124-48-1 | Dibromochloromethane | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 106-93-4 | 1,2-Dibromoethane | 1 | <2.1 | UQ | 0.7 | 2.1 | 5.1 |
| 108-90-7 | Chlorobenzene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 100-41-4 | Ethylbenzene | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 108-38-3/106-42-3 | m,p-Xylenes | 1 | <4.1 | UQ | 1.0 | 4.1 | 10 |
| 95-47-6 | o-Xylene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 75-25-2 | Bromoform | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 100-42-5 | Styrene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 98-82-8 | Isopropylbenzene | 1 | <2.1 | UQ | 0.6 | 2.1 | 5.1 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | <2.1 | UQ | 0.9 | 2.1 | 5.1 |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | <2.1 | UQ | 0.5 | 2.1 | 5.1 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | <2.1 | UQ | 0.9 | 2.1 | 5.1 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | <2.1 | UQ | 0.9 | 2.1 | 5.1 |

| SYSTEM MONITORING COMPOUND | ADDED (ug/kg dry) | CONC (ug/kg dry) | % REC | QC LIMITS | Q |
|----------------------------|-------------------|------------------|-------|-----------|---|
| Dibromofluoromethane | 51.3 | 46 | 89 | 74 - 133 | |
| Toluene-d8 | 51.3 | 45 | 88 | 85 - 115 | |
| 4-Bromofluorobenzene | 51.3 | 40 | 79 | 85 - 120 | * |

| INTERNAL STANDARD | AREA | RT | REF AREA | REF RT | Q |
|------------------------|---------|--------|----------|--------|---|
| Pentafluorobenzene | 695128 | 11.482 | 709989 | 11.482 | |
| 1,4-Difluorobenzene | 1261477 | 12.181 | 1220746 | 12.181 | |
| Chlorobenzene-d5 | 1122003 | 15.624 | 1261311 | 15.624 | |
| 1,4-Dichlorobenzene-d4 | 411802 | 18.59 | 652044 | 18.59 | |

* Values outside of QC limits